

0996054-101501

<110> Cheikh, Nordine
Liu, Jingdong

<120> Nucleic Acid Molecules and Other Molecules Associated with the
Cytokinin Pathway

<130> 16517.256/38-21(15094)C

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<151> 1997-11-24

<150> US 60/069,472
<151> 1997-12-09

<150> US 60/071,064
<151> 1998-01-09

<150> US 60/074,201
<151> 1998-02-10

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<212>	DNA
<213>	Zea mays
<220>	
<221>	unsure
<222>	(1)...(254)
<223>	unsure at all n locations

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 acnangaccn anggatcacc gtggttnctg gtgttnnagc natagggttc atttttggtc 120
 ctctatcgc tttagccatt ggcgcaaaat ttgtgccttg angaagccnn agaanttncc 180
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 tgtcgganct gnac 254

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 <211> 272
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 2
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 gggattgagg ccaagggctt cgtgttcggc cnggcgatcg cgctggctat tggcgctaag 120
 ttcatnctc tgcgcaagcc aaggaagctc ccaggtgagg tgatctccga gaagtacgtt 180
 ctcgagtacg ggactgattg cctggngatg cgtgtcgggg ccatcgagcg atccggcgng 240
 cgggtgntgn tcatcgacga cctggttgcg ca 272

<210> 3
 <211> 318
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(318)
 <223> unsure at all n locations

<400> 3
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 acctctgcgc aagccaagga agctcccagg tgagagattc catgaccatg catgttcnnn 120
 nnnnnnnnnn nnnnnnaacc catctccaca ctctgcaactg taccagctg ttgcttttgt 180
 cgatctagtg ccagcctgt ggcgacaccc tgatcaagta tatgttttagc gaggaggggt 240
 cttgcttagc ccataatctc tggacaccgc cagagttggt tgtctggcct gcatgcagtt 300

gcagtcccggt gaatggga

318

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<211> 279
<212> DNA
<213> Zea mays

<400> 4

gttccaggac atcacgacac tgctgctoga cccaaggcg ttccgtgaca ccatcgacct 60

cttcgttgag cgggtacaagg accaagggat caccgtagtt gctggtgtgg aagctagagg 120

gttcattttt ggctctccta tcgctcttac gatcgggtgct aaatttgtag ctttgaggaa 180

gccgaagaag ttgccaggcg aggtgatctc cgaagaatat tctctggaat acggaactga 240

caagatagag atgcatgttg gagctgtaca ggccaacga 279

<210> 5
<211> 440
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(440)
<223> unsure at all n locations

<400> 5

cgcccgcgcc ggccgacttc gccttttcgt ccccgcgta gcgtcgcggc tccnntgagc 60

gtgcgcgta cgggcggcag gcgagggcag gcggtggtgg cgatggcgtn cgctgatgcg 120

cgcttgccgg ngatcgnetc ctncatccng gtnatncccg acttnccaaa gccagggatn 180

atgtttcagg acatcangan gntgntgttc gatcccaagg cgntccgtga caacatatac 240

cattttgtca agcgggtacaa ggaccaaggn atcacentgg aaantaggag ttaaagctag 300

agggntcant ttcggaacaa ctanntctta naannaattg gtcaaaaatn ggtgncnatt 360

gaggaagcnn aatnagntgc cangcnaaat gatttttnang aatangaatt ttnggaatnn 420

ggaatnntag ataaaaaant 440

<210> 6
<211> 470
<212> DNA
<213> Zea mays

<220>

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<221> unsure
 <222> (1)...(470)
 <223> unsure at all n locations

 <400> 6

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 gntatgggct ttanccattg gcgcaaaatt tgtgcctttg aggaagccga agaanttgcc 120
 aggcgaggtg atctccnaan agtatntttt ggaatatgga actgacaana atagaaatgc 180
 atgtcggant tttacaaggc caacaaccgg cctttttgta ntncaatnat cttnttgnta 240
 ccggtggaac attttttcaa nttnnaaaaa ttttttaaac tttttgaacc aaaagntttt 300
 gaaagtccct ttgttanttn naattnncca aaaantnaan gggccaaana aactttgnga 360
 cacgggccaan atttttttcn tttgggaaaa aaaacacctt aaacnghan ttttngacnt 420
 tttaaaaaan attttngccc cccaatnct naaaattttt catttttcca 470

<210> 7
 <211> 412
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(412)
 <223> unsure at all n locations

 <400> 7

 atctgattgn caccggtgga acacnctggt tttctttcaa acttattgaa cgtgttggag 60
 naaagntgt tgagtgtgct tgcntnattg aattggcaga actgaagggc cgagacaaac 120
 ttggggacag ggcagtnttt gttcttgngg aagcagatgc ttgancggaa cttgggactt 180
 ctcttctcag agagttagag ttagcgctgt tgatgctacc tntctggaaa acaacaaagt 240
 tncccatggt ggntanagtn nggctgacac gtaataaaan tttcatncca aattgtgatc 300
 ccctgaatga natgacaatg tagacatgat tgctggtcct tgnatactgt gggnttatta 360
 ttcacatcaa antaaaangga taatcccnga atgggagctn aaaaaaangg ac 412

<210> 8
 <211> 448
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure

<222> (1)...(448)
 <223> unsure at all n locations

 <400> 8

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 agattncctc ntgcattccgc gtnatncnng acttctnnaa ancagggatc atntannang 120
 acataangac antgatgctc gaccnnaaag cgttccgtga caccatcgac gtcttctntg 180
 agcgggtacaa ggaccaaagg gatcacccgta attgctgggtg tggaagctag aggggttcatt 240
 tttggntctc tatcgctcta ccatnaatgc gaaatttgta ccttttagga agcctaaaaa 300
 atttccaagc cagggttaatc tncgaaagaa tattctcttg aatnccnaaa ctananaana 360
 taaatatnca ttttgganct ttacaancca aacnaattgg gcttttngta tttcnatnat 420
 nttattntca cnagtnnaac aatttttt 448

<210> 9
 <211> 437
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(437)
 <223> unsure at all n locations

 <400> 9

agacgcgtgg gcgggggtcga agaggagctt ggagcttggg ccgacccgag cccaccgag 60
 cgagagagag gaaataatgg gtgaagaggc cagctgcaac gccgtcagcg cgatggaggc 120
 cgccaccaac gccaggccgg ccaaggagaa cggacgcgcg ccggctgtgg cggaggtagt 180
 ggcccaggag gcggccactg acccccggct gcagggcatc tccgacgcca tccgcgtcgt 240
 gccgcacttc cccaagcacg gcatcatgtt caacgacatc accacgctgc tgctgcgccc 300
 cagggtgttc aaggacgccg tcgacctgtt cgtcgagcgc taccgcggga tgcgcatcga 360
 cgccgtcgcc gggatcgagg ccaggggctt catatttggc ccggcagtc attggctatt 420
 gggcgccnaa ttcaaaa 437

<210> 10
 <211> 461
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

 <400> 10

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 catcgacgac ctgggttcga ccggagggac actctgtgct gcgatcaggc ttctagaacg 120
 tgctggagcc gatgtggtcg agtgcgcgtg tgtcatcggg ctcccgaat tcaaggattt 180
 gtacaagttg aatggaaaac ctgtatacgt gctgggtgag tctcgtgaat aatcggagaa 240
 atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctccctgcta 300
 ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcng tgcatacta 360
 aatcttggtg aggggagaga ttgtagtgg ttaagctgag tanttgaana acctgtaatt 420
 tctgcacnga acatgatngn tattagttn attccaccac t 461

<210> 11
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 11

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 gcgtgtcggg gccatcgagc gatccggcga gcgggtgctg gtcacgacg acctgggttc 120
 gaccggagga cactctgtgc tgcgatcagg cttctagaac gtgctggagc cgatgtggtc 180
 gagtgcgcgt gtgtcattgg gctcccgaat ttcaaggatt tgtacaagtt gaatggaaaa 240
 cctgtatacg tgctggttga gt 262

<210> 12
 <211> 253
 <212> DNA
 <213> Zea mays

<220>
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 <222> (1)...(253)
 <223> unsure at all n locations

<400> 12

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 tgctgtcggg ggccatcgag cgatccggcg agcgggtgct ggtccatcga cgacctggtt 120

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gcgaccggag ggacactact gtgctgcgat caggcttcta gaacgtgctg gagccgatgt 180
 ggtcgagtgc gctgtgtcat tgggctcccg aaattcaagg attgtacaat tgatggaaaa 240
 cctgtatacg tgc 253

<210> 13
 <211> 463
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(463)
 <223> unsure at all n locations
 <400> 13

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 gaggaagccg aagaagttgc caggcgaggt gatctccgaa gagtattctt tggaatatgg 120
 aactgacaag atagaaatgc atgttgagc tgtacaggcc aacgaccggg ctctttagt 180
 cgatgatctt attgctaccg gtggaacact ctgtgcagct gtcaaactta ttgaacgtgt 240
 tggagcaaag gttgttgagt gtgcttgtgt cattgaattg ccagaactga agggctcgaga 300
 caagcttggg gacaggccag tttttgtcct tgtggaagca gacgcctgag cgggaatttg 360
 gaattctcag agagtttggt gcccgctgat gcttctctn tggagacaac acaagtttnc 420
 catggtacca tgttggtat tttctggctt gacccgtaat aaa 463

<210> 14
 <211> 300
 <212> DNA
 <213> Zea mays
 <400> 14

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 tcggctctcc tatcgcttta gccatcgggc caaaatttgt gcctttgagg aagccgaaga 120
 agttgccagg cgaggtgatc tccgaagagt attctttgga atatggaact gacaagatag 180
 aaatgcattg tggagctgta caggccaacg accgggctct tgtagtcgat gatcttattg 240
 ctaccggtgg aacactctgt gcagctgtca aacttattga acgtgttgga gcaaagggtg 300

<210> 15
 <211> 288

<212> DNA
 <213> Zea mays

 <400> 15

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 ggaagccgaa gaagttgcca ggcgaggtga tctccgaaga gtattctttg gaatatggaa 120
 ctgacaagat agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg 180
 atgatcttat tgctaccggt ggaacactat gtgcagctgt caaacttatt gaacgtgttg 240
 gagcaaaggt tggtgagtgt gcttgtgtca ttgaattgcc agaactga 288

<210> 16
 <211> 297
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(297)
 <223> unsure at all n locations

<400> 16

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 gtgatctccg aagagtattc tttggaatat ggaactgaca agatagaaat gcatgtcgga 120
 gctgtacagg ccaacgaccg ggctcttgta gtcgatgatc ttattgctac cggtggaaca 180
 ctatgtgcag ctgtcncact tattgaacgt gttggagcaa aggttgttga gtgtgcttgt 240
 gtcattgaat gccagaactg aagggccgag acaagcttgg ggacaggcca gtttttg 297

<210> 17
 <211> 289
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

<400> 17

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 tattcttttg aatatggaac tgacaagata gaaatgcatg tcggagctgt acaggccaac 120
 gaccgggctc ttgtagtcga tgatcttatt gctaccggtg gaacactatg tgcagctgtc 180

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aaacttattg aacgtgttgg agcaaagggt gttgagtgtg cttgtgtcat tgaattgcc 240
gaactgaagg gccgagacaa cttggggana ggccattttg gcctggngg 289

<210> 18
<211> 276
<212> DNA
<213> Zea mays

<400> 18

ttttggctct cctatcgctt tagccattgg cgcaaaattt gtgcctttga ggaagccgaa 60
gaagttgcc ggcgaggtga tctccgaaga gtattctttg gaatatggaa ctgacaagat 120
agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg atgatcttat 180
tgctaccggt ggaacactat gtgcagctgt caaacttatt gaacgtgttg gagcaaagg 240
tggtgagtgt gcttgtgtca tgaattgcc gaactg 276

<210> 19
<211> 267
<212> DNA
<213> Zea mays

<400> 19

accaagggat caccgtgggt gctgggtgtt aagctagagg gttcattttt ggtcctccta 60
tcgctttagc cattggcgca aaatttgtgc ctttgaggaa gccgaagaag ttgccaggcg 120
aggatgatctc cgaagagtat tctttggaat atggaactga caagatagaa atgcatgtcg 180
gagctgtaca ggccaacgac cgggctcttg tagtcgatga tcttattgct accggtggaa 240
cactatgtgc agctgtcaaa cttattg 267

<210> 20
<211> 244
<212> DNA
<213> Zea mays

<400> 20

caagatagag atgcatgttg gagctgtaca ggccaacgat cgggctcttg tagtcgatga 60
tcttattgcc accggtggaa cactctgtgc agctgtcaaa cttattgaac gtgttgagac 120
aaaggttgtt gagtgtgctt gcgtcattga attggcagaa ctgaagggcc gagacaaact 180
tggggacagg ccagtttttg ttcttgtcga agcagatgct tgagcggaac ttgggaacttc 240
tctt 244

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<210> 21
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 21

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 acttattgaa cgtgttggag caaagggtgt tgagtgtgct tgtgtcattg aattgccaga 120
 actgaagggc cgagacaagc ttggggacag gccagttttt gtccttgtgg aagcagacgc 180
 ctgagcggaa cttgggactt ctcagagagt ttggcgccgt cgatgctccc tctctggaga 240
 caacacagtt tcccatgtta ccatgt 266

<210> 22
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 22

gatcttattg ctaccggtgg aacactatgt gcagctgtca aacttattga acgtgttggg 60
 gcaaagggtt ttgagtgtgc ttgtgtcatt gaattgccag aactgaaggg ccgagacaag 120
 cttggggaca ggccagtttt tgtccttgtg gaagcagacg cctgagcggg acttgggact 180
 tctcagagag tttggcgccg tcgatgctcc ctctctggag acaacacagt t 231

<210> 23
 <211> 174
 <212> DNA
 <213> Zea mays

<400> 23

ctttggaata tggaactgac aagatagaaa tgcattgttg agctgtacag gccaacgacc 60
 gggctcttgt agtcgatgat cttattgcta ccggtggaac actctgtgca gctgtcaaac 120
 ttattgaacg tgttggagca aagggtgttg agtgtgcttg tgtcattgaa ttgc 174

<210> 24
 <211> 275
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(275)
<223> unsure at all n locations

<400> 24

atcagtgcga aatttgtact tcttaggctt cctcaaaggt gatctccgaa gaatattctc 60
tggaatacgg aactgacaag atagagatgc atgttggagc tgtacaggcc aacgatcggc 120
tcttgtagtc gatgatctat tgccaccggt ncaacactct gtgcagctgt caaactattg 180
aacgtgttgg agcaaagggt gttgagtgtg ctgcgtcatg aatggcagaa ctgaagggcc 240
gagacaaact tggggacagg ccattttgtn cttga 275

<210> 25
<211> 229
<212> DNA
<213> Zea mays

<400> 25

gttgagtgtg cttgtgtcat tgaattgcc aactgaagg gccgagacaa gcttggggac 60
agggcagttt ttgtccttgt ggaagcagac gcctgagcgg aacttgggac ttctcagaga 120
gtttggcgcc gtcgatgctc cctctctgga gacaacacag tttcccatgt taccatgttg 180
gctattttct ggctgacgcg taataaagtt ttattccaaa ttgtgatcc 229

<210> 26
<211> 119
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(119)
<223> unsure at all n locations

<400> 26

ggaatatgga actgacaaga taganatgca tgtcggagct gtacaggcca acgaccgggc 60
ttcttgtagt cgatgattct tattgctacc ggtggaacac tatgtgcagc tgtcaacaa 119

<210> 27
<211> 431
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(431)

<223> unsure at all n locations

<400> 27

cttgcacccc gtccccgtcc gcgccggccg acgccgcctt ttcgtccccg cgtcagcgtc 60
 gcgggtccac tgagcgtgcg tgtcaccggc gggaggcaag ggcaggcggt ggtggcgatg 120
 gcgtccgctg acgcgcgctt ggccggggatc gcctcctcca tccgcgtcat ccccgacttc 180
 cccaagccag ggatcatgtt ccaggacatc acgacgttgc tgctcgatcc caaggcgcttc 240
 cgtgacacca tcgacctctt tgtcgagcgg tacaaggacc aagggatcac cgtgggttgct 300
 ggtggtgaag ctagaggggtt catttttggc cctcctatcg ctttagccat tggcgcaaaa 360
 tttgtgcctt tgaggaaacc gaagaagtn ccaagccaag gttatttccc naanaattat 420
 cctttggaaa a 431

<210> 28

<211> 460

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(460)

<223> unsure at all n locations

<400> 28

gccacgccgt cccggcagtc nttggcatte ccgtcccgtc ggccgccggc cgaccccgct 60
 ttttcgtccc cgcgtaagc gtcgcgggct tccactgaag cgtgcgttgt caccggcggg 120
 gaggcaaggg caggcggtgg tggcgatggc gtcccgctga cgcgcgcttg gcggggatcg 180
 cctcctccat ccgcgtcatc tccgacttcc ccaagccagg gatcatgttc caggacatca 240
 cgacgttgct gtcgatccc aaggcgcttc gtgacaccat cgacctcttt gtcgagcggc 300
 acaaggacca agggatcacc gtggttgctg gtggtgaagc tagagggttc atttttggtc 360
 ctcctatcgc tttagccatt ggcgcaaaat ttgtgccttt gaggaaaccc gaagaagttg 420
 ccaggccaag gtgatctccg aagaggtatt cttttggaat 460

<210> 29

<211> 431

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(431)
 <223> unsure at all n locations

 <400> 29

 cgcgctctcgt ccccgctccgc atccgcgtcc ggcgcgcctt ttcgtccccg cgtcggcgtc 60
 gcgggtccac tgggcgtacg cgtcaccggc ggaaggcgag ggcaggcggt ggtcgcgatg 120
 gcgctccgccg acgcgcgcctt ggcggggatt gcctcctcca tccgcgtcat ccccgacttc 180
 cccaagccag ggatcatggt ccaggacatc acgacactgc tgctcgacct caaggcggtc 240
 cgtgacacca tcgacgtctt cgttgagcgg tacaaggacc aagggatcac cgtagttgct 300
 ggtgtggaag ctanagggtt cttttttggt cctcctatcg ctctaaccat cantgcgaaa 360
 ttttgtacct ttganggaac ctaaagaaat tnncaaggcn aaggtgatnt ccgaaanaat 420
 aatccnctgg g 431

<210> 30
 <211> 472
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(472)
 <223> unsure at all n locations

 <400> 30

 gccagtcttg catcccgtcc cgcgccgcgc cggccgacgc cgccttntcg tccccgcgtc 60
 agcgtcgcgg ctccactgag cgtgcgtgtc accggcgagg ggcaagggca ggcgggtggtg 120
 gcgatggcgt ncgctgacgc gcgcttggcg gggatgcct cctocatccg cgtcatcccc 180
 gactttccca agccagggat catgttccag gacatcacga cgtttgctnc tnnatnccaa 240
 ggcgttccgt gacaccatcg acctcnttgt cgagcggtag aaggaccaag ggatcacctg 300
 ggttgctggt gttgaancta gaggggtcat ttttggtcct tctatngctt tagccattgg 360
 cgcaaaaatt gngcccttta agaaanccga ataaatntca ncnaggngat ttnngaagaa 420
 ntttttttga aanttggact tttccanant naantgggtt tnnngngttt nc 472

<210> 31
 <211> 271
 <212> DNA
 <213> Zea mays

 <220>

<221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

 <400> 31

 gcgagggcag gcggtggtcg cgatggcgtc cgccgacgcg cgcttggnng ggattgcctc 60
 ctccatccgc gtcatccccg acttcccaa gccagggatc atgttccagg acancacgac 120
 actgctgctc gaccccaagg cgttccgtga caccatcgan ctcttcgttg agcngtacia 180
 ggaccaaggg atcacgtag ttgctggtgt ggaagctaga gggttcattt ttggtccctc 240
 ctatcgctct agccatcggt gctaaatttg t 271

<210> 32
 <211> 294
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

 <400> 32

 gtctcgcatc ccgtccccgt ccgcnccggc cgacgccgcc ttttcgtccc cgcgtcaggt 60
 ncgcgggctc cactgagcgt gcgcgtcacc ggccggcaggc gagggcaggc ggtgggtggcg 120
 atggcgctcc ctgatgcgcg cttggcgggg atgcctcct ccatccgct catccccgac 180
 ttccccaagc cagggatcat gtttcaggac atcacgacgt tgctgctcga tcccaaggcg 240
 ttccgtgaca ccatcgacct ctttgtcgag cgggtacaagg aacaagggat cacg 294

<210> 33
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

 <400> 33

 gtccccgtcc gcgccggccg acgccgcctt ttcgtccccg cgtcagggtc gcggggtcca 60
 ctgagcgtgc gtgtcacng ngggaggcaa gggcaggcgg tgggtggcgat ggcgctccgct 120
 gacgcgcgct tggcggggat cgctcctcc atccgcgtca tccccgactt ccccaagcca 180

09975054-101301

gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaaggac caaggatcac cgtgg 285

<210> 34
<211> 269
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(269)
<223> unsure at all n locations

<400> 34

cngacgctgg ggcgcggccg acgcccctt ttctccccg cgtcagggtcc gcgggctcca 60
ctgagcgtag gtgtcaccgg cgggaggcaa gggcaggcgg tggtagcgat ggcgtccgct 120
gacgcgcgct tggcggggat cgcctcctcc atccgcgtca tccccgactt ccccaagcca 180
gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaagga 269

<210> 35
<211> 285
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 35

cgcaccccggt ccccggtccgc nccggcngac gccgcctttt cgtccccgcg tcagggtccgc 60
gggtccactg agcgtgcgcg tcaccggcgg caggcgaggn caggcggtgg tggcgatggc 120
gtccgctgat gcgcgcttgg cggggatcgc ctctccatc cgcgtcatcc ccgacttccc 180
caagccaggg atnatgtttc aggacatcac gacgttgctg ctcgatccca agggcgttcc 240
gtgacaccat cgacctcttt gtcgagcggg acaaggacca agggg 285

<210> 36
<211> 287
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 36

cnagtntcgc atccccgtccc cgctccgcacn ggcnngangcc gcctttncgt ccccgcggtca 60
 ntncgaggac tccactganc gtgcgcgtna ccggcggcag gcgaggncag gcggtggtgg 120
 cgatggcgtc cgcngatgcg cgcttggcgg ggatngcctc ctccatccnc gtcatccccg 180
 acttccccaa nccagggatc atgtttcagg acatcacgac gttgctgctc gatcncaagg 240
 cgttccgtga caccatcgac ntctttgtcg ancngtaciaa ggaccaa 287

<210> 37
 <211> 458
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(458)
 <223> unsure at all n locations

<400> 37

ttcacnecgn cggtttncgc ttttcggcat nccgtccccg tccgcgcggg gncgattncg 60
 ncttttcgtn ngcgcggtcag ngtcgcgggt ccaactgagcg tgcgtgtcac cggcgggagg 120
 caagggcagg cgggtggtggc natggcgctc gctgacgcgc ncttggcggg gatcgccctnc 180
 tncatncgcn tcacccccga cttccccaaag ccagggatca tgttccagga catcacgacg 240
 ttgctgctcg atcccaaggc gttncgttga caccatcgac ctnttttgtc gaancggtac 300
 aaggaccaan ggatcaccgt ggnttgctgg tgttgaagct agagggttna ttttttggtc 360
 cttctatcgc tttanccatt ggcgcaaaat ttgtgccttt gaagaanccc aaaaaagttg 420
 ccacgcnaa gtgaacttcc gaaaaaggtt cttttgga 458

<210> 38
 <211> 272
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 38
 cngacgctgg ggcgcgctcc cegtcgcgcgc cgcccgncgc cgccttttcg tncccgcgtc 60
 agntgcgcgg ctacactgag cgtgcgtgtc accggcgana ggcaagggca ggcggtggtg 120
 gcgntggcgt ccgntgncgc gcgcttggcg gggntcgct cctccatccg cgtcatcccc 180
 gncttcccca agccagggnt cntgttccag gacntcacgn cgttgctgct ngntnccaag 240
 gcgttncgng ncaccntngn cntctttgtc ga 272

<210> 39
 <211> 216
 <212> DNA
 <213> Zea mays

<400> 39
 caagggcagg cgggtggtggc gatggcgctcc gctgacgcgc gcttggcggg gatcgccctcc 60
 tccatccgcg tcatccccga cttccccaaag ccagggatca tgttccagga catcacgacg 120
 ttgtgctcga tcccaaggcg ttccgtgaca ccatgacttt tgtcgacggt acaggacaag 180
 gatcacgtgg ttctgtgttg agctagaggt cttttt 216

<210> 40
 <211> 312
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (312)
 <223> unsure at all n locations

<400> 40
 ancctcgct cccgtccgcn tccgcgccgc ctttttcgtc cccgcgtccg cgtcgcggtc 60
 tccactgggc gtgcgcgtca ccggcgggag gcgagggcag gcggtggtcg cgatggcgtc 120
 cgccgacgcg cgcttggcgg ggattgcctc ntccatccgc gtcaatcccc gacttcccca 180
 agccaaggat catgttccag gacatcaacg acaatgctgc tcgaccccaa agcgttccgt 240
 gacaccatcg aactcttcgt tgancggtaa naagaacaan ggattaaccg taantgctgg 300
 tgtngaaact aa 312

<210> 41
 <211> 237
 <212> DNA

<213> Zea mays
 <400> 41
 tgtgcggggc tacttcgctt ggtctctggt ggacaacttt gaatggaccg cgggctacac 60
 cgaacgttac ggcatagtct acgttgaccg taatgacggc tacaaacgct acatgaagaa 120
 gtcagccaag tggttgaaag agttcaacac tgagaaggct ggcagcgcct aatgatgtgc 180
 catgcataaa agaccgggtc tgtgtgattt gaattctata tttttatttg cacctcc 237

<210> 42
 <211> 280
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(280)
 <223> unsure at all n locations

<400> 42
 gncgggcatc ccantggtcc ttggatgggg anttcgtgga tctacntann tcctgaaggc 60
 tannggatnt agcttatnat cangaagaac aaatacggaa anccacccat ctacatcact 120
 gagaacggga tgngtgacgt tgancatggc gatctacca tggaagttgc cttggatgac 180
 cacannagn tanattantc ncagcgcgac atcganantc ttanggcgtc aaganacttg 240
 ggagcnaatg tgcagggcta cttcgcntgg nctctattgg 280

<210> 43
 <211> 282
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(282)
 <223> unsure at all n locations

<400> 43
 cggnacntgg tatgcttctg tgactatgga attttgtaaa cagcttttaa tgcattgttg 60
 agtatttatt aattttgtat acttctttga aaatgagctt ggtgtgtgat ttgcaaatca 120
 tcagatgggtg actatatggg aatgtatttg gttacccaat gtggaatggg ttattttcat 180
 gattttgtgt taacagaagt tttaaccttt aagggtctgt ttggttgggc tgtggctgtg 240
 aaaaaagttg ctgtgggctg tgagctgtga aaaaagctgc tg 282

<210> 44
 <211> 294
 <212> DNA
 <213> Zea mays

<400> 44

accatcgcta cgtgggagat ctggagatcc tgcagtcgct gggagtcaac gcctacagat 60
 tctccatctc atgggcgagg gttctaccaa gaggccgggt tggtagcgctc aatgcaggcg 120
 gggtagcttt ctacaaccgc ctgatcgatg cgctcctgca gaaaggaata cagccattcg 180
 tcactctgaa ccatttcgac atgccgcgag agctggagggt ccggtacgtg gctggctgga 240
 cgctgggatc cgggaggagt acgagcacta cgcggacgtc tgcttcgggg cgtt 294

<210> 45
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 45

gaaaaagctt cttcctggat ccagccattt ggttggtttt tggcttttag gggggcaaaa 60
 gccaaagcca aaattcaaac caaacacacc cagtcatttt ggcttttcta tatacaatgc 120
 tttaactatg tatttagata tagtgtatat ttaagtgcac tataaaagat gccccctcca 180
 tcccnnaata aaatgtgttt taccttttta gttgatacat gcaataatga atatatttgt 240
 cttacatatg tgtctagatt catcatcatc catttgaac 279

<210> 46
 <211> 140
 <212> DNA
 <213> Zea mays

<400> 46

gtcatattct ccagcacggt ggctaataat gtattgttgc agtacaaaaa aaaaaatata 60
 atccacaagg taaatttctt aatctataac cactatttga aattggtagt ctacaatcta 120
 tttgatgctt taagtgaact 140

<210> 47
<211> 291
<212> DNA
<213> Zea mays

<400> 47

aggaaaacaa attatacaac ttcatgagt atttaagagc aagcacacgg gctcagttga 60
tgaattccct gaatcacatt tcccatatgg ctcggaacaa cgggtgggtg gaaatgcccc 120
aatggagtat gcaagcttta caataagatt tggtcattg aatgtgaccc agtgctttac 180
tcggtcacca aacatcttga agcaaagctc aacgaagtag gtgaagtcct ccctgaatag 240
aaataaagaa acaaccacat atgaacttac ggcattctcg tagataaagc t 291

<210> 48
<211> 315
<212> DNA
<213> Zea mays

<400> 48

cccaggacaa aaatgcgcta acccaaccgg gaactcgctc accgagccat acattgttgc 60
ccacaacctc ctccgagctc acgctgagac tgtccatgag tacaacaagc attacagagg 120
taacaaggac gcacagatag ggattgcatt cgacgtgatg ggccgtgtgc catatgacaa 180
tatgtttctc gacggccagg cccaagaaag gtccattgat tataacctag gatggttcat 240
ggagccggtg gttcgcggcg actacccttt ctccatgaga tcattgatca aggatcggct 300
accctacttc accga 315

<210> 49
<211> 290
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(290)
<223> unsure at all n locations

<400> 49

ctgccagcgt atgggcctga cgggaaaccc attggctctc ctgtacgtat atctttccaa 60
cactatatga atttggtcac attattctan atttatgttt aaagtgattg gtgtaaaaaa 120
ttcatccaaa aatataagca cagaagaatg tttgtcatg gatgaaatta tacgtgttga 180
gtagcaaatg ttttgtgttg gcagtaaagc agaacaaatc tttacttttt tgtggaaata 240

0976054-101501

tgcattgtgt taactagtga ataattttcg ctacaatttg cagatgggaa 290

<210> 50
 <211> 299
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(299)
 <223> unsure at all n locations
 <400> 50

ctaattatgga cggaaaaaaaa atgccacaaa caactatatt ttagcgggaat gattaataat 60
 ctaattggtat acatgacgta tgggcttcta agcaagccat gtgcagaaat gcagaatcng 120
 cccatagccg gcatcgacgg acctgggcat gttgggctgg agtcctaaga tgaccttttt 180
 gcgagatatt tgactcaaac aatctaacca actcaactaa actagatact tttggctctt 240
 ttattttctt ttacgaaact ttttgtcaac gtaggttttt agtttggtat acttattaa 299

<210> 51
 <211> 250
 <212> DNA
 <213> Zea mays
 <400> 51

ggccgggtcta gtccgaggct ccacgacta cgtcggagtc aaccagtaca ctgcctacta 60
 cgtgcgtgat cgacggccaa acgctacggc ggccgccc agctactcgt ccgactggca 120
 cgctgagttc gtctatgaac gcgacggtgt gccgattgga ccaagggcga actcagactg 180
 gctctacatc gtgccttggg gactgtacaa agccgtcacc tacgtcaagg agaagtacgg 240
 caacccacg 250

<210> 52
 <211> 237
 <212> DNA
 <213> Zea mays
 <400> 52

gggaccgact acccttcttc actgacgagg agcgagagaa gctagtgggc tcatatgaca 60
 tgctgggggtt aaactactac acctcaaggt tctccaaaca catcgatata acgcaacaca 120
 acacactaag gctcaacact gacgatgcat atgccagtca ggaaacgaaa gggcctgacg 180

09976054.101504

gcgagcccat tggctctccg atggggaatt ggatctacct gtatcctcaa ggcctaa 237

<210> 53
<211> 315
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(315)
<223> unsure at all n locations

<400> 53

anacaatctt cagaatactc tggggggctg gatttctgac aagattgtgg agtactttgc 60
attgtatgca gaagcttgct ttgcaaattt tggagacagg gttaaagcatt ggataacaat 120
caatgaacct ctccaaactg caatcaatgg ttatgggatt ggaatttttg cacctggagg 180
atgccaaagg gaaactgcta gatgttactt ggctgccccat caccaaactt tggctcatgc 240
tgctgctggt gatgttatag aagaaaatcg aggctgcaca agtgtgaagt aggggtgggtg 300
tgattgtgaa tgggc 315

<210> 54
<211> 339
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(339)
<223> unsure at all n locations

<400> 54

gggcgctgga tccgcgggcg gcggtgaatc gcgtgcgggc tgacgtgagc gctgagcggg 60
attcgcggcg ggggcagtct acgctccact cttaatagtt gtagagatac ttttataaaa 120
gtacttttta tgacaaattg acgcatataa atatcagggt ccaaaaaacta aataacaaaa 180
tagttatttg tagtcaaat tttataagtt tgactcgaac cttatccaaa acgacaacta 240
ataggaaacc ggaggagta cgtgaccaa caccaccatt taagaccgac ggagaaccac 300
atggacatgg ggcgtgnttg ggaagggtgcc cagtanccc 339

<210> 55
<211> 187
<212> DNA

<213> Zea mays
 <400> 55
 gatttataac ctaggatggg tcatggagcc ggctgttcgc ggcgactacc ctttctccat 60
 gagatcattg atcaaggatc ggctacccta ctttaccgac gacgagaaag agaagctagt 120
 gggttcgtat gacataatgg ggataaacta ctacacctcg aggttttcca agcacatcga 180
 catctcg 187

<210> 56
 <211> 271
 <212> DNA
 <213> Zea mays

<400> 56
 ccttttaca actcaactga agatcaaaaa gcagcgcaaa gggccaggga cttccatatt 60
 ggttggtttc ttgatccatt aataaatggg caatatccaa cgataatgca agacattgtg 120
 aaagaccggc taccaagttt cacacctgaa caggccaagc tagtcaaggg ctcacagat 180
 tatttcggga tcaatcaata tactacatac tacattgcag atcaacaaac tcctccgag 240
 gaccaccgag ctactcgtcc gactggggcg t 271

<210> 57
 <211> 275
 <212> DNA
 <213> Zea mays

<400> 57
 cgaaagaaca cctctgtttt ctctgtttga aagatgagct taatcctata aacgcacaca 60
 agaagctaac ttaagaagcg ttcccatgca tacgcattag cttgggctaga tgagtcacta 120
 tgacaatgac cgggtccagt gatgtgtctg gtctaatecg gatcgtccgg caagaaaaga 180
 aatgaaatca ggtgcattga acctgagctt gtcataatcc caccacatct caaaatataa 240
 acatatattc atcaatcatc tacgaatgca atttg 275

<210> 58
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 58
 cgcagagggg cagggtcggg atcctgctgg atttcgtgtg gtacgagccc ctcacgggag 60

gactcagccg ccgaccgggc cgccgctcaa aggtccagag acttccacgt cggatgggtc 120
 ctgcacccca tcgtctacgg cgagtacccc aagtcgggtcc ggagaagcgt caagggcagg 180
 ctccccaaagt tcacggctga ggaggccggt ctagtccgag gctccatcga ctacgtcgga 240
 gtcaaccagt aactgccta ctacgtgcgt gatcgacggc caaacgctag gcggcgcgcc 300
 cagtacttcg tccga 315

<210> 59
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 59

atcgccccga cggggatgta cgggtgctg aactacctca aggagaagta tgggaatcca 60
 acgatctaca taacggagaa cgggtactcaa cggaattccg tgtttcgcgt gaacacgcca 120
 cgccgcatac caagggaatc gtatttacat cgatcttttt tttatttctt ttctgtgtta 180
 ccaggaatgg accagcctgg aaacttgacc cgagaccagt acctgcgcga cgccacgagg 240
 gtgcggttct acaggagcta catcggccag ctgaagaagg ccataga 287

<210> 60
 <211> 297
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(297)
 <223> unsure at all n locations

<400> 60

agaatggacc aacctggtga tgtcagtatt actcagggtg tgcattgacac agtaagaatc 60
 cgttattaca gagactacat aactgagctc aagaaggcaa tagatgatgg tgccagantc 120
 attgggtact ttgcgtggtc gctgcttgac aacttcgagt ggaggcttgg gtacacttcg 180
 cggtttggtt tgggtgtacgt ggactacaag actctgaaga ggtaccccaa ggactcagct 240
 ttctggttca agcatatgct gtccaagaaa aggagtagag aattgcagac aagagga 297

<210> 61
 <211> 284
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 61

acggaacctt atatacgttgc tcataatttt ctcttgtcac atgctgctgc tgtgtcaaga 60
 taccgtaaca agtatcaggc tgctcagaaa ggaaagggtg gaatagttct ggacttcaat 120
 tggatatgaag ctctcacaaa ctcaaccgaa gaccaagcag cggctcaaag agcaagggtt 180
 tccangttgg ttggtttgct gatcccata taaatggntt tatccccagn tatgccagnt 240
 ntngnaaaag agnggctgcc cattttactc nggagnaagc taat 284

<210> 62
 <211> 278
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 62

ggccaaccaa agggctggat ctaggaagca gctttttcta aaagctgact ttctcacagt 60
 gcaaattctga aagcaccctt aaacctgctt ttagtgactt ttcggatgga actgtgaaaa 120
 catatatcga ngaactttta acgactttta gtgatttcca ccaaacggtt tttagctttt 180
 taacgactca cagctacagc agctttttcc acagctcaca gccacagca attttttcac 240
 agcccacagt tcaaccaaac agacctatat anccatgg 278

<210> 63
 <211> 269
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 63

gtgtggtacg agccgctgac caagtccgtg gaggacgagt acgcggcgca ccgggctcgg 60
 atgttcaccc ttggctggtt cctgcacccc atcacctacg gccactaccc ggagacgatg 120

cagaagatcg tcatggggag gctgccaac ttcaccttcg agcagtctgc catggtcaaa 180
 ggctcagcgg actacgtcgc catcaaccac tacaccacgt actacgccag caacttcgtc 240
 aacgccacag agaccactta ccgcaangt 269

<210> 64
 <211> 207
 <212> DNA
 <213> Zea mays

<400> 64

gccccaggat cctgggtgat ttcacagctt tcgccgactt ctgcttcaag acgtacggcg 60
 accgggtgaa gaactgggtc accatcaacg agccgaggat gatggcccag catggctacg 120
 gcgacggctt cttccccccc gccagatgca ccggctgcca gttcggcggc aactccgcca 180
 ccgagccgta catcgccggc caccacc 207

<210> 65
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 65

ccaacttcac cttcgagcag tctgccatgg tcaaaggctc agcggactac gtcnccata 60
 caaccactac accacgtact acgccagcaa cttcgtcaac gccacagaga ccaactaccg 120
 caacgattgg aatgcaaaga tttcgtatga gcgagatgng tgtgcccatt ggcaaaaggg 180
 cgtactcgga ctggctttac gtcgntccat gggggctcta caaggctctg atttggaacca 240
 aggnngaattc aacagccctg tgatgctcat cgagagaaac ggattgaccc 290

<210> 66
 <211> 288
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(288)
 <223> unsure at all n locations

<400> 66
acagcttctc ttttcattct acacaattta tttatncnga tactccctcc gtctcaaat 60
ataattcatt ttagactaaa catatattca ttagttaacc tatgaatata gtttgatgt 120
atatctacat tcattatcaa ttattogaat gtggacggag aactatattt tgggacggag 180
ggagtactac ttggctttat ctgataccat tntttatttt gctttctaca caatttacgn 240
cagggcanct catacaatta ttcagatntt naactggagt tcagtcat 288

<210> 67
<211> 294
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(294)
<223> unsure at all n locations

<400> 67
cgccgagcng cacactccag cgctgagcnc tacgtcgta cccacaactg catcctggcg 60
cacgctgccc tncgccgnen tctacaneng cagctaancg tgccgaacag cagggcgtn 120
tcggnatcaa natctacacc ttctggaact accccttctc cntgcgtnc gcngaagtc 180
aggccacgca gngttcgntn nattcatgat cggntggatg gtnaaccggt tngngnang 240
tgatanccct aagtgatgaa gagganagtc gggctngttt occaggttna ctaa 294

<210> 68
<211> 289
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(289)
<223> unsure at all n locations

<400> 68
gatggccaag cacggcgggc ggggccccag catctgggac gccttcatag aggttcccg 60
gaccatccct aacaatgcc aagctgacgt gacggctgac gagtatcatc ggtacaagga 120
agatgtgaac ataataaga acatgggctt tgtgcgtacc gattttcgat ctcttggtcg 180
aggattttcc nagatgganc tggcaaggta aaccagnang gagtggatta ctacaacagg 240
ctcanagntt annncncaa aaannnanng ncngnaaaaa attctctnt 289

<210> 69
 <211> 289
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

 <400> 69

 catcgggtaca angnccatgt ncttcattnt gttcacatct tccttgtacc gatgatactc 60
 gtcgaccgtc acgtcagcgg tggcattggt acaaggaaga tgtgaacata atgaagaaca 120
 tgggctttga tgcgtaccga ttttcgatct cttggtcgag gattttccca gatggaactg 180
 gcaaggtaaa ccaggaagga gncgattact acaacaggct tcatagatta catgctccag 240
 caaggtatcg cgccgtatgc aaatctctac cattatgacc tcccattgg 289

<210> 70
 <211> 278
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

 <400> 70

 ttcagcttag ctagcaangg gnggatcat ggcnacgctt gtcgctnctg ccatgaagca 60
 acgctgnann ccatnctgtg cnttaggagg cncctagtag ganccaacaa taagagtttc 120
 tcanggcacc acctnnnctg cttcttctnn atagancagc aagcgcaggt gtaagcttag 180
 gtttactana cgatctggna gagtaggcag ctcaanatgg agtccaaatg ttngnnaccc 240
 tcggaaatnn cacaaaggga ntggttcccc tctgattc 278

<210> 71
 <211> 296
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(296)
 <223> unsure at all n locations

<400> 71
 gtggaggctt gggtagactt cgcggtttgg cttggtgtac gtggactaca agactctgaa 60
 gncgtacccc aaggattcag ctttctgggt caagcatatg ctgtccaaga aaaggagcta 120
 gagaattgca gacaagagga ccaactggctt cacgtgtcat acaaaagtgc actctgcaaa 180
 tcctcttagt atgtcagatt tagcttaagg aaccgtgcag acaattgagt ctcaaggctc 240
 gacatctcta gcttcgttaa ntgttgcaag gcaataaatt ggtatcttcg aaaaaa 296

<210> 72
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 72
 gcaccatctc atcctttctn angnngctgn ngtnaggacg ataccgcnac aagtatcann 60
 ttgaccagaa ggggaagatt ggaattctnc tggatttcgt gtggnacgaa cctttnagcg 120
 acagcaatnn ggnncaggct ggagnacanc gagccngacg acnttcacct aggctgggtt 180
 ccttganncc attgtacatg gncggtancg tactcgatgc aagagatgag aaagacagct 240
 accgttggtc agcgatgaag aagccaggat gntgaaaggc tctatagact atgttggcat 300
 c 301

<210> 73
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 73
 ccctaacaat gccaccgctg acgtgacggt cgacgagtat catcggtaca aggaagatgt 60
 gaacataatg aagaacatgg gctttgatgc gtaccgattt tcgatctctt ggtcgaggat 120
 tttcccagat ggaactggca aggtaaacca ggaaggagtg gattactaca acaggctcat 180
 agattacatg ctccagcaag gtatcgcgcc gtatgcaaat ctctaccata tgactcccat 240
 ggcaactccat gaacagtact gggctggctt agcccaa 277

<210> 74
 <211> 277
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

 <400> 74

 acaatgctag agtccatnta tctagggttt atgctgggtga aaaacttttg aagtaaaaga 60
 nagtctgtta gacttggtact tggtcnnttt gtcattgcaac attttcagga agatgtcgac 120
 ctcatgaaaa gtttgaattt tgatgcctac cggtttctna tctcatgggc caggatcttc 180
 ccagatggcg agggaagagt caatccagaa ggtgttgccct attacaacaa tctgataaac 240
 tacctgcttc ggaaaggcat tacaccgtac gccaatc 277

<210> 75
 <211> 311
 <212> DNA
 <213> Zea mays

 <400> 75

 attagcttgg ctagatgagt cactatgaca atgaccgggt ccagtgatgt gctgggtctaa 60
 tcgggatcgt ccggcaagaa aagaaatgaa atcaggtgca ttgaacctga gcttgtcata 120
 taccaccac atctcaaaat ataaacatat attcatcatc catctacgat gcaattgtat 180
 gaacgttata ttagtgggtg ttgttgata tattaccatt agagtagtcc aagtgtggtt 240
 atatatcggg tagttatatc ccaacaacac cccttatatc atcatctata ggcggaataa 300
 gcacaacatt t 311

<210> 76
 <211> 337
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

 <400> 76

 gactgggtcg ccgtgcntca nngnacgtgt atggcattgt cnacgtcgac cgcaanaata 60

antgcacgcg ctaacatgaa ggaatctgcn caagtngttg aaacngttca ncgccgcgac 120
 agaagnccag cangangntn cttncgccan cttagaaatc ggggnccnca tgatgtggnn 180
 gcagcccata aacaactggt gtgtngttcg aancgaaaat tntctannnt tnnccgccag 240
 agaagttnag aggnatactc tccagcacgt ggctaataag cattgtgcca attcatctgg 300
 ccttgtcagc ntgcataata ngtgctggtt tcctgtt 337

<210> 77
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 77
 cggggcgnga gccggaggtg ancngcgccg acttccccga cggttcgctc ttcggcgtn 60
 ctacctantg cgtaccagnt tgaaggagcg agaaggncag ggaggcaaag gagacagcat 120
 atgggatgta tttacagatg acaaagaaca tgtnttagac agaagcaatg gagaaattgc 180
 anctgatcac taccatcgat acaaggaaga cattgagctc aggcaagtct aggttttagc 240
 gcatacagat tttctatatac ttgggcgcgt atatttcctg atggctgggn cnnaatgtca 300
 tgatcaagga gtcgccttct ataatgacct catcattann g 341

<210> 78
 <211> 328
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(328)
 <223> unsure at all n locations

<400> 78
 gacttggcag actccttcat gtagcgctg cagttattgt tgcggctcgac gtagacaatg 60
 ccataacgtt cgggtgaagcc ggcgaaactgt tgcttgaggc cattccgcga ancacaactc 120
 ttacaatatg catgcgccgg cgcacgacga cgcgcgctgc ctctcgtgag cttctgttca 180
 agtgatgcat gtttcaaggc atccatggat gctttacgta tatgcgtatt aattagccgt 240
 gtcaggggaac cggacagaag ggggtgttgt tttatatatta cgtcttctgg tgatcaaata 300

aaggggaata tatgttgat gtgtnaat

328

<210> 79
 <211> 327
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(327)
 <223> unsure at all n locations

<400> 79

gccaaagcacg gcgggcgggg cccagcatc tgggacgcct tcatagaggt tcccgggacc 60
 atccctaaca atgccaccgc tgacgtgacg gtcgacgagt atcatcggtta caaggaagat 120
 gtgaacataa tgaagaacat gggctttgat gcgtaccggt ttcgatcatt gggnaggatt 180
 tcccagatgg actggcaagg tgaaccagg aaggagtggga tataccaacc aggtcataga 240
 tacatgctcc cagcaagtat ccgcgcgtat gncaaannct acattatgac tccattgcnn 300
 catgacatac tgggtgntta ccaagat 327

<210> 80
 <211> 295
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(295)
 <223> unsure at all n locations

<400> 80

aaatatatat cgaagaactt ttaacgactt ttagtagntt ccaccaaacg atnttttagct 60
 ttgnaacggc tcacagccta cagcagctng tnttcatagc tcataacaac tttnttcaca 120
 gaccaaacag acccatagat ttgtncgtca catcacgttc gtgtatggct ggccctggcg 180
 tttcatgacc gctcgtttcc tccgccagcg cagtagcgcc gctannnnnnn nnnnnnnnnn 240
 nnnctgctg gctcgccact gccagtttcg caccatgttg ttgtacttnt atccg 295

<210> 81
 <211> 274
 <212> DNA
 <213> Zea mays

0996054-104501

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 81

cgcntattgc cacgtcaaga nacgaatggn cctgacggga atcccattgg tccttgntg 60
 ggcaatccga ggnnctacct ataccctgaa ggccataaagg atctgcttat gatcntgaag 120
 aacaaatnccg gaaacccacc catctacatc actgagaacg ggatgggtga cgntgacct 180
 ggngatctac ccatggaagn tgcttgatg accacanaag agtacattac cttcagcgca 240
 catcgcaact cttaaggagc aagagacttg ngag 274

<210> 82
 <211> 249
 <212> DNA
 <213> Zea mays

<400> 82

cgcggtggtt ggccgccta gggtacgacg acggcaggtt cgcgccgggg aggtgcacgg 60
 ggtgcgagc cgggggggac tcgggcaccg agccctacgt cgtggcgac cacctcatcc 120
 tctccacgc cgccgccgtc cagaggtacc gccgcaggca ccagccgacg cagaggggca 180
 gggtcgggat cctgctggat ttctgtggt acgagcccct cagggcgac tcagccgccg 240
 accgggccg 249

<210> 83
 <211> 287
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 83

ctttcggaga aaagggtaaa aaactgggtt accttcaaca agccgaggtg cgtccctngc 60
 tctgggctac aacaatggct tgcacgcacc gnaagggtgt ccgggtgcc ccgccggang 120
 caactcnacn acggagcctt accttgctgc acaacatcct caacccttcc tcatgcaacc 180
 tgctgtcaag gcnataccgc cnacaagtta tcancttcac caagaaagg gaaaaattgg 240
 aaattncct ggaatttcgt ngtgggtaca aaacctttca anccaaa 287

<210> 84
 <211> 394
 <212> DNA
 <213> Zea mays

 <400> 84

 ggaaaaaagg aacgggaaga gagggctctgt ttggttgaga ggtagatgtg aaaaaagttg 60
 tttgtgaatt gtaaaactgtg gaaaaagttg ttgtgggctg tgagctgtta aaaaactaca 120
 aaatgttttg tggaactac taaaagtcgt taaaagttct tcgatatatg ttttcacagt 180
 tccatctaaa agcaggtaca taggtgcttt gaggtcaaag tgggttgagt cgggggacgac 240
 gccgttctct caattttttg ggatcacgcc tccacaaaaa actactccgg gttttacctc 300
 gtccctacgt gaatctcatc caaacactat tggaattgtg gccgccctat tccatccctc 360
 ccaatataca tccaacaaaa acattaatgt tgtc 394

<210> 85
 <211> 436
 <212> DNA
 <213> Zea mays

 <400> 85

 agaaactaaa gcttcagaag ggtaggcgtt catatcacat agagaatata tgcaatcctt 60
 gacgtagaat gtttggtagt gatttaccct gatgaagtca atttggttct tcaatagttt 120
 cttctctcct tctgtaaatt ttggcaaatt tggacctaaag atttggcgca tctggtgagg 180
 atagtcacca aagaaaaagg gatccaagat cctgttttag catatatcat caagtgaagca 240
 ttcaatcgtg aagacaaaaa gttagttcca atcgtaaaag ttagcatata tgatggaagg 300
 ttactgaatc aattgatacc atggagcatc gaaagacaga gctcggctta ctgccaaagt 360
 gtccctccgtg ataactctga atgggtcaaa acaacctaag ttgtaatgaa attcctacaa 420
 aagccacctt gcttgg 436

<210> 86
 <211> 414
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations

09976054-101501

<400> 86
 tgntgcacag cggaggcttg actttcaact tggatggnac ctatatccan tanatnttgg 60
 tgattacca gaaagcatgc gtcaacgact gggcattgat nttccaacct tctcaganaa 120
 ngataaagag ttcatgagga ncacaattga ttttgttga gtanattcatt atacttcaag 180
 antcattgct catctccana atccannca tgtntatttc taccangtgc aacaaatgga 240
 gcgaatataa taatgganta ttggtnaaaa aattggtgaa agggcngcat ctgaatggct 300
 tttcanantt ccttggggcc ttcataagtc acttanttan atancgaata agtacantan 360
 tccagcaatt tatgttactg aanantggca tggatgaaga agacatcaat ccgc 414

<210> 87
 <211> 367
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(367)
 <223> unsure at all n locations

<400> 87
 ctcantgntc aaaacnagtt gaggagcaat atttgttana tgtggagagg caattngana 60
 ggggggngga tgnntaaan ggtgggaagg cnaacggtct ttgttaacat gcaataaatg 120
 tanaaggagc tgtacaccta naggtncgan tacatatttc caatanncan ctgtagaatt 180
 tatattatna angctttana attactncac ataanatnnt attatnncan ncttatgntg 240
 atgatnttta caacaancat tacaatttnt acnacacttg tatagggctt gcgtttnact 300
 ttatnnatca tgtgccatac ngaacatttt ttatgnataa anntgncnat taaaantact 360
 gntacat 367

<210> 88
 <211> 335
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(335)
 <223> unsure at all n locations
 <400> 88

cataaggata atgacggant ctncnnngac ttnanctggn actatgatct tacncacnna 60
 nggngnggnc caatncatgn acgngggaga gccnntnact ttcacattna ctgngnagtt 120
 natccattga taaacggaca ctatccacag atnatgcaag atctcaatga acgacaatnt 180
 gccacattc actcctganc atnctaaact ggtanaacgt ctccttagac tacatatgct 240
 atcaacgant acacatccac ctacatcaat nntcaaaatc tgtgatcacc tgactcccan 300
 taactactcn nncnattgac acnatcacta tactg 335

<210> 89
 <211> 375
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(375)
 <223> unsure at all n locations

<400> 89
 tagcacgtcg acttctcaga agactactca cctaagctca acgccgacga cgcctatgcc 60
 actgcagaaa tctttggacc tgacgggaat tctattggtc ctcctatggg gaaatccatg 120
 gatctacatg taccctaaag gcctaaagga tctcctatg atcnnggaag accaaatccn 180
 gaaaccnct anctatatcc ngagaccgga anccgggacc tttgccccca aagganaatc 240
 cncgatccat gcaananncc ntngnannga ctnccnagna ggcttggatt accctccnnc 300
 ccccatntn aannnnntnna annatncagt tnancctggg ggcngaccn nccccngcn 360
 cttnacangg ncctt 375

<210> 90
 <211> 406
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(406)
 <223> unsure at all n locations

<400> 90
 ctgagtaacg ccgatgtcgc ggtcgatcag taccaccggt tcgaggagga tatacaggtc 60
 atggcggaca tggggatgga cgcgtaccgc ttttcgattg cctggtcgag gattctgccc 120
 aatggtaccg gccaaagtcaa ccaggccggc gtcgaccant acaacagggt natcgatgca 180

0907654.1050

ctgntatcga aagggattga gccatacntg accntgtacc antggnacnt ccccnaggcc 240
 ntgaaanaca ggtncacg atggntggac aggcaaata ngtaacaant ccnagtacnc 300
 cnagacatgc ttttaggnct tttgaganac gcgtgagang cnttgnaca ccttnaaaag 360
 agccacacan ggtccctgca cagggataaa accccgntct annaaa 406

<210> 91
 <211> 418
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(418)
 <223> unsure at all n locations
 <400> 91

actggctctg aacaataagc cctgaatcat ggtctcattc ctacaacagg tcccgcacg 60
 atgcaacatg tcttgattct taaaaggaa atgttgatc ccacacaact acaaatccgt 120
 actatgaaa tacatttcta attagaccga ggaaccatg aagatggatg gaagcagaac 180
 acccaaggag accaaaagg agaccagcaa ggcagggtccg ttcgaggtgg ctgaagccga 240
 accagccggc cggccgcctg aaccagtctg cggggtagca gccttgagc ccgtccccga 300
 aagcatgtct ctgaaccagt acgcccagtc cttggggtag cgcttcagcg tcgcgaagtc 360
 gacgtagacg atgccgaact tggacgtgta gcccagacgc cactngaagt tgttcagg 418

<210> 92
 <211> 426
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations
 <400> 92

cggacnnttg ggtttctctt ggcacatgct actgcngttg caagataccg tacgaaatat 60
 cagggctctat atatgcttg aagttggaac aatggctgct cagaagggtg aggtcgnaat 120
 agtcctggac ttcaactggt acgaggctct taaaactca cctgatgacn aagcatcatc 180
 ccaagagcc agggacttcn acattngntg gnntgntgat ccattgataa acggacncta 240

09976054-101501

ttnacagata atgcannatc tcgtgnagga gatgctgnct aggttcactn atnaacntgc 300
 taaactgntg aatnctcggn gactacatct tntcaacgag gacncatcta tntacantaa 360
 ngggcagaat cttgtcaact ggnncccaat anctctttcn nattgnnnag ttcaatatgt 420
 tttgga 426

<210> 93
 <211> 500
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(500)
 <223> unsure at all n locations

<400> 93

cgaaggnaca gtcccttggt tggaactttg ggctgattat gtgcttggtg ntgtgcgggt 60
 ggggttcgatg ggaagttttac cggtctcttc acgggaaact tacggacnca tacgcatttc 120
 gaggggtccga aggactcttc cacgactacg aagaataaac atggaaattt attcactcat 180
 actatggaga atggaactgg ggacgccgac attaaggaga tattctcatt tacggaggac 240
 gttccaaacg atcataaaaag gtcagaccat acttagtggt atactgtcat ctccaaggaa 300
 ctaacagatc cgggactaaa cgcgtaaggt catcctgtcc ggctctcgtc ggataatccc 360
 gaacggcctg ttggtcctat tgaatgccac ggtaccgctc atgctgattg taataacaat 420
 cgtatgtgtc atacgaagga gctcgttaag cggccgaaat agcctaattg tgtgaagaat 480
 ttaataagaa gacctccatt 500

<210> 94
 <211> 501
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(501)
 <223> unsure at all n locations

<400> 94

aagggggggg aggaaagccc ntggtnggac ctttgggctg nttatgtgct tgttatgtgc 60
 ttgttatgtg cttgnatttg cacaggggtcc gtgcccgatg caacgggctg cgcgttacat 120
 ggaatactgc cctcggacaa ataggttgaa gaaaggcttc gggatactaa ttcaggacgg 180

cctccagagt tagcggcctg cggcgatcat tttcctctta cgagactacc ggtcagggaa 240
 tgatcatttc ctctaagga tgagtagaag gagaagtctg ttggccttca caatacgccg 300
 gggccaaatc atcatattct atggcctctt aaaaatactg acactcnatt aaatcntcta 360
 ttcgcgtcta atatcgatga tgttcatggt agctaagaag ccaatgggtt cgatgggaaa 420
 tttaccggct tcctcacggg aaacntacgg actctacgct ttcgaaggtc ccgaaggatc 480
 ttcacgatac gaaagaataa a 501

<210> 95
 <211> 464
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

<400> 95
 cgtaatctgg tncgaacnaa tgacaaacat tttcgattga cattgaaagc taccaanaag 60
 ggngcacgag ttcagctagg atgggntcgc ggacccgttc ttcttcggag actaccnngc 120
 gacgatncgg gctnngggtg gagagaggct gnccaagntc accgnagacn angctgcctt 180
 tgtcaagggg gccctggact tcatgggcat aaaccactac accactttct acacgaggca 240
 taactgacac caacatcatc ggacggctgc tgaacnacac tttggcggac accggaacca 300
 tcancctgcc cttegacaaa aacggngaag cccattggag atcgggctaa ttcgatatgg 360
 ctgtacatcg taccagcgg gatcaggaag ctgatgaact atgtcaagga gcggggccaa 420
 taccacaagg tttacatnac tgaaaatggg atgggccact gcnc 464

<210> 96
 <211> 447
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 96
 ctcaagcact agaanagaag tacttnttta ttcttanata agactcataa caagnngngn 60

aattattaca aaaactngng gtaacgtgtn cttcgacaac tttggtgaca aggtgaagaa 120
 ttggttgacc tttaatgagc ccnatacatt tacttcattt tcctatggaa cctnntctc 180
 tgccccanga cgatgctcac cnntactaga ctgagccatc ccaactggat aattcactcn 240
 tctnaacctt acattnctgn ccacaacatt cttctagccc annctnaggc tgttnatctt 300
 tacaacaagt attacaaggc cnaagaacgg ccncataggt cttgcatttg atgtantnan 360
 tcnttttnna tantcaacat tatttctaga ttaacttttt naantangnt tcatnnacat 420
 tacttaatta tanttntttt atccttt 447

<210> 97
 <211> 289
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations
 <400> 97

cgatccgtca tggcgactgc tgcgccattg ttnntntccc acggtctcct cctcncct 60
 ctccctggcg ctccggcgccc atggcggtgaa cgtgaagccc ggggagcacc acatcctcaa 120
 caggcagagc ttccccccgg ggttcgtctt cggcacggcg tcgtcggcgt accagggtgga 180
 ggggaacacn cacagggtacg ggcgcggggc ctgcatctgg gacaccttcc tcaagtatcc 240
 aggactact cctgataacg cgaccgcgga cgtgacagtc gacgagtac 289

<210> 98
 <211> 211
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(211)
 <223> unsure at all n locations
 <400> 98

ggcgctcggn gcccatggcg tgaacgtgaa gcccggggan caccacatcc tcaacaggca 60
 gagcttcccc cgggggttcg tctttggnac ggcgtcgtcg gcgtaccagg tggaggggaa 120
 cacgcacagg tacgggcgcg ggccctgcat ctgggacacc ttcctcaagt atccaggcac 180
 tactcctgat aacgcgaccg cggacgtgac a 211

<210> 99
 <211> 435
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations

<400> 99

ccgagctact cgtccgactg gggcgtccaa tattactttc aaaggaatgg cgtgcaaattg 60
 ggnncgatgg cgcactcaat ntggctttac atcgtcccat cgggcatgta tggagtcgtg 120
 aactacctaag aggaaaagta ccataatcca atcatcatca tatcggaaaa cggaatggat 180
 cagcctggaa acctcacgcg cgaggagtac gtgcacgacg ccgtgaggat cgacttctac 240
 aagaactacc tgacggagct aaagagaggg atcgacggcg gcgcgaacgt gatcggctac 300
 ttgcgtgggt ctntcctgga caacttcnag tggtgtcgg ctacacgtcc aagttcggca 360
 tcgtctacgt cgacttcgcg acgtgaanc ggtaccccaa ggactcggng tactggttca 420
 aaacatgctt tcggg 435

<210> 100
 <211> 314
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(314)
 <223> unsure at all n locations

<400> 100

gttcgtgaaa ctacctaaag gaaaagtacc ataatccaat catcatcata tcgganaacg 60
 gaatggatca gcctggaaac ctacgcgcg aggagtacgt gcacgacgcc gtgaggatcg 120
 atttctacaa gaactacctg acggagctaa agacagggat cgacggcggc gcgaacgtga 180
 tcggctactt cgcgtggtct ctctggaca acttcgagtg gctgtcgggc tacacgtcca 240
 agttcggcat cgtctacgtc gattcgcgac gctcaacggg accccaagga tcggcgtact 300
 gggtcagaga catg 314

<210> 101

<211> 277
 <212> DNA
 <213> Zea mays

 <400> 101

 ggatcagcct ggaaacctca cgcgcgagga gtacgtgcac gacgccgtga ggatcgactt 60
 ctacaagaac tacctgacgg agctaaagag agggatcgac ggcgggcgga acgtgatcgg 120
 ctacttcgcg tggctctctcc tggacaactt cgagtggctg tcgggctaca cgtccaagtt 180
 cggcatcgct tacgtcgact tcgcgacgct gaagcggtag cccaaggact cggcgctactg 240
 gttcagagac atgctttcgg ggacgggctc caaggct 277

<210> 102
 <211> 255
 <212> DNA
 <213> Zea mays

 <400> 102

 gtaccataat ccaatcatca tcatatcgga aaacggaatg gatcagcctg gaaacctcac 60
 gcgcgaggag tacgtgcacg acgccgtgag gatcgatttc tacaagaact acctgacgga 120
 gctaaagaga gggatcgacg gcggcgcgaa cgtgatcggc tacttcgctg ggtctctcct 180
 ggacaacttc gagtggctgt cgggctacac gtccaagttc ggcacgtctt acgtcgactt 240
 cgcgacgctc aagcg 255

<210> 103
 <211> 274
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

 <400> 103

 gcgcactcaa tttggcttta catcgcccc tggggcatgt atggagtcgt gaacnaccta 60
 aaggaaaagt accataatcc aatcatcatc atatcgaaa acggaatgga tcagcctgga 120
 aacctcacgc gcgaggagta cgtgcacgac gccgtganga tcgatttcta caagaactac 180
 ctgacggagc taaagagagg gatcgacggc ggcgcgaacg tgatcggcta ttcgcgtggt 240
 ctctctggac aattcgagtg gtgtcgggta cagc 274

09976054 "101501

<210> 104
 <211> 216
 <212> DNA
 <213> Zea mays

<400> 104

tgcaaattgg acagatggcg cactcaattt ggctttacat cgtcccatcg ggcatgtatg 60
 gagtcgtgaa ctacctaaag gaaaagtacc ataatccaat catcatcata tcggaaaacg 120
 gaatggatca gcctggaaac ctcacgcgcg aggagtacgt gcacgacgcc gtgaggatcg 180
 atttctacaa gaactacctg acggagctaa agagag 216

<210> 105
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 105

gatcaatcaa tatactacat actacattgc agatcaacaa actcctccgc nggggggnacc 60
 gagctactcg tccgactggg gcgtccaata ttactttcaa aggaatggcg tgcnaattgg 120
 acagatggcg cactcaattt ggctttacat cgtcccatcg ggcatgtatg gagtcgtgaa 180
 ctacctaaag gaaaagtacc ataatccaat catcatcatn tcggaanacg gaatggatca 240
 gcctggaaac ctcacgcgcg aggagtacgt gcac 274

<210> 106
 <211> 254
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(254)
 <223> unsure at all n locations

<400> 106

gatcaatcaa tatactacat actacattgc agatcaacaa actcctccgc agggaccacc 60
 gagctactcg tccgactggg gcgtccaata ttactttcaa aggaatggcg tgcaaattngg 120
 acatatggng cacncaattt ggctttacat cgtcccatcg ggcatgtatg gagtcgtgaa 180

ctacctaaag gaaaagtacc ataatccaat catcatcana ncnggaaagg gtatggntcn 240
ccnctggaa acct 254

<210> 107
<211> 189
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(189)
<223> unsure at all n locations

<400> 107

gggaccaccg agctacnacg tccgacncng ggcgtccaat attactttca aaggaatggc 60
gtgcaaattg gacagatggc gcacttcaat ttggctttac atcgteccat cgggcatgta 120
tggagtcgtg aacncaccta aaggnaaagt accataatcc aatcatcatc atacggaaa 180
acggaatgg 189

<210> 108
<211> 353
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(353)
<223> unsure at all n locations

<400> 108

cggaaaccca cccatctaca tcaactgagaa cgggatgggt gacgttgacc atggcgatct 60
acccatggaa gttgccttgg atgaccacaa aagagtacat tacctccagc gccacatcgc 120
aactcttaag gagtcaagag acttgggagc gaatgtgcag ggctacttcg cttgggtctct 180
attgacaact tcgaatgggt ctccggctac acggaacgtt acggcatcgt ctatgttgac 240
cgcaacgatg gctgcaaacg ctacatgaag cggtcagcca agtggttcaa agagttcaat 300
gctgcgaaga aagcggctgc caagaagatt cttacgccag cttagaatcg ntg 353

<210> 109
<211> 326
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(326)
 <223> unsure at all n locations

<400> 109

aaccaccca tctacatcac tgagaacggg atgggtgacg ttgaccatgg cgatctaccc 60
 atggaagttg ccttgatga ccacaaaaga gtacattacc tccagcgnca catcgcaact 120
 cttaggagt caagagactt gggagcgaat gtgcagggt acttcgcttg gnetctattg 180
 gacaacttcg aatggttctc cggctacacg gaacggttacg gcatcgtcta tgttgaccgc 240
 aacgatggct gcaaacgcta catgaagcgg tcagccaagt ggttcaaaga gttcangctg 300
 cgaagaaagc ggctgccaga agntct 326

<210> 110
 <211> 256
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(256)
 <223> unsure at all n locations

<400> 110

catgnatnct acctatatcc tgaaggccta aagganctgc ttatnancat gaagaacaaa 60
 tacggaaacc caccatcta catcactgag aacgggatgg gtgacgttga ccatggcgat 120
 ctacccatgg aagttgcctt ggatgaccac aaaagagtac attacctcca gcgccacatc 180
 gcaactctta aggagtcaag agacttggga gcgaatgtgc agggctactt cgcttggtct 240
 ctattggaca acttcg 256

<210> 111
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 111

atatggctcc actcgtcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
 ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
 gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
 tgagcccctc ggaagtcctt aaaagagact ggttcccctc tgacttcac tttggtgccg 240

ccacttcagc gtaccaaatt gaaggtggat ggaacgag 278

<210> 112
<211> 274
<212> DNA
<213> Zea mays

<400> 112

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagcccctc ggaagtcctt aaaagagact gggtcccctc tgacttcac tttgggtgccg 240
ccacttcagc gtaccaaatt gaaggtggat ggaa 274

<210> 113
<211> 232
<212> DNA
<213> Zea mays

<400> 113

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagcccctc ggaagtcctt aaaagagact gggtcccctc tgacttcac tt 232

<210> 114
<211> 233
<212> DNA
<213> Zea mays

<400> 114

atatggctcc actcgctcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgaggggcct cggaagtccc taaaagagac tgggtcccct ctgacttcac ctt 233

<210> 115
<211> 162
<212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(162)
 <223> unsure at all n locations
 <400> 115
 gagagagaaa aaatatggct ccaactcgctg ctactgccac gatgaaccac gctgtggccc 60
 atctgctagg acccaatcat gagagtttct cacggcacca tctttcttcc tcgctgcagc 120
 aaaacagtaa gcgaaggtgt aatcttagct tcaggccang ng 162
 <210> 116
 <211> 233
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations
 <400> 116
 taccaaggct ggtagggccc aaaaattgtg gacatatttg ctgactatgc tgatttttgt 60
 ttcaagactt ttggcaatcg agtcaagaac tggttcacat taaatgagcc aaggatagta 120
 gcattccttg gttatgataa agggcttaac ccccctaacc ggtgcacaca atgcactgcc 180
 ggtgggaact catcgacaga accttacatt gttgttcata acattcnct atc 233
 <210> 117
 <211> 349
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(349)
 <223> unsure at all n locations
 <400> 117
 ggaagatggt gatctcatga gaagcctaaa ttngatgca taccggtttt caatctcctg 60
 gtccaggatc ttcnccagat ggcgaaggga naattaatna cgaaggagta caatnata 120
 acaatcttat agactacatg gttaagcaag gccttactcc ttacgccaac cttaccact 180
 atgatcttcc gtttgcgctt cagaagaagt accaaggctg gttaggccca aaaattgtgg 240

acatatattgc tgactatgct gatttttgggt tcaagacttt tggcatcgag tcaaganctg 300
gttcacatna attgagccaa ggatagtagc attccttgggt tatgataac 349

<210> 118
<211> 203
<212> DNA
<213> Zea mays

<400> 118

taaccactat gatcttccgc ttgcgcttca gaagaagtac caaggctgggt taggccc aaa 60
aattgtggac atatttgctg actatgctga tttttgtttc aagacttttg gcaatcgagt 120
caagaactgg ttcacattaa atgagccaag gatagtagca ttccttgggt atgataaagg 180
gcttaacccc cctaaccgggt gca 203

<210> 119
<211> 303
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(303)
<223> unsure at all n locations

<400> 119

gattactaca acaggctcat agattacatg ctccagcaag gtatcgcgcc gtatgcaa at 60
ctctaccatt atgacctccc attggcactc catgaacagt acctgggctg gcttagccca 120
aagattgtgg aggcgtttgc agactacgcc gagttctgcn tccacgcgtt cggagacagg 180
gtgaagaact ggtttacctt caacgagccg aggtgcgtcg ctgntctggg ctacgaacat 240
ggcttgacag caccgggaag gtgttcgggt gccccgccgg agcaactcca ccacggnanc 300
gta 303

<210> 120
<211> 220
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(220)
<223> unsure at all n locations

<400> 120

05976054.101501

ggattactac aacaggctca tagattacat gctccagcaa ggtatcgcg cgtatgcaaa 60
tctctaccat tatgacctec cattggcact ccatgaacag tacctgggct ggcttagccc 120
aaagattgtg gaggcgtttg cagactacgc cgagttctgc ttcnacgggt cggagacagg 180
gtgaagaact ggtttacctt caacgagccg aggtgcgctg 220

<210> 121
<211> 355
<212> DNA
<213> Zea mays

<400> 121

gacggatcgg actcaccttg cttggttggg ggtacgagcc tgggacgcag actcccgcag 60
atgtcgcggc agccgcacgg atgaacgact tccacatcgg atggttcattg catcctatgg 120
tgttcgggga ctacctccg gtgatgagga ggaacgtcgg gtccaggctg ccgaccttca 180
cggacgagga ggccgcgcga gtgagggggg ctttcgactt cgtcggattc aaccactaca 240
tcgtcgtcta cgtcaaggct gatcttgcc gcctagacga ccaagtgcga gactacatgg 300
gcgatgcagc cgtgaatatg accatgccgt tctcaatcag caacagttcc gttcg 355

<210> 122
<211> 282
<212> DNA
<213> Zea mays

<400> 122

caagttcggc atcgtctacg tggacttcaa cacgctcgaa cgccaccoga aggcgtcggc 60
ctactggttc agggacatgc ttcagaagca ttgagatctc cagagccgag cctgagcacg 120
gaaggtacca ttttgttcag cttcgcctag tgtttgggat ggcccaatgg ttcaaaccg 180
gctcagtgcc tggctaccaa aatgggaaca aaggacagct accccgatca attgtgatgt 240
tgtgtgtttg tgggtatgtt ctctctggag tttgagctgt gg 282

<210> 123
<211> 234
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(234)
<223> unsure at all n locations

<400> 123

ggacttcaac acgctcgaac gccacccgaa ggcgtcggcc tactggttca gggacatgct 60
tcagaagcat tgagatctcc aganccgagc ctgagcacgg aaggtaccat tttgttcagc 120
ttcgccatgt gtttgggatg gcccaatggt tcaaatccgg ctgagtcctt ggctacaaa 180
atgggaacaa aggacagcta ccccgatcaa ttgtgatgtt gtgtgtttgt ggggt 234

<210> 124

<211> 314

<212> DNA

<213> Zea mays

<400> 124

cactgggaca cgcctcaagc actggttagac aagtacggtg gctttttaga tcggaggatt 60
gtaaaagatt acacagattt cgctatggtg tgcttcgaga acttcggtga caaagtga 120
aattggttga catttaacga gcccacaaacg ttttcttctt tttcctatgg aatcggttg 180
tgtgccccag ggcggtgctc cccaggacaa aaatgtgcta acccaattgg aaactcactt 240
atcgagccat acattgttgg tcacaacctt ctctagccc atgctgaggg tggtgatctt 300
tacaacaagc atta 314

<210> 125

<211> 261

<212> DNA

<213> Zea mays

<400> 125

attgtaaaag attacacaga ctctgctaag gtgtgctttg agaacttcgg tgataaagta 60
aacaattggt tgacctttaa tgagcccaa acgttttctt ctttttcata cggaaccggg 120
ctatgcgccc cagggcggtg caccacagga caaaaatgtg ctaacccaat tggaaactcg 180
ctcactgagc catacactgt tggccataac cttctccgag cccacgctga ggctgttgat 240
ctttacaaca agtattacaa g 261

<210> 126

<211> 222

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(222)
 <223> unsure at all n locations
 <400> 126
 attggttgan ctttaagttag ccccaaactgt tttcttcttt ttcatacga ancgggctat 60
 gcgncccagg gcggtgcacc ccaggacaaa aatgtgctaa ccnaattgga aactngctca 120
 ctgagccata cactgttggc cataaccttc nccgagccca cgctgaggct gttgatcttt 180
 aaaaaagtat tacanggggtg agaattggann tanggctnnn tt 222

<210> 127
 <211> 382
 <212> DNA
 <213> Zea mays

<400> 127
 gaggagagga gaggagagac tagaccgct agctgaggcc gggcggcgcg ctggacacga 60
 acatgatggg gagaaaggcg ctcggtctgtg ctctctctct cctcctcttg gccgccgcgc 120
 tcgctccggc cgagctcagc gtcggggcgcg cggtgcctc gggcgcggtc acccgggcgc 180
 acttccccgc ggggttcgct ttcggcgctg gtcctccgc gtaccaggtc gaagggtgcag 240
 ttgcagagga cggaaggaag cctagcatct gggacacatt cacacatgaa ggctattccc 300
 ttgacaacgc cacaggcgat gtaactgcgg atcaagtatc ataagtacaa ggacgacgta 360
 aaagcttctg catgaagaaa tt 382

<210> 128
 <211> 412
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(412)
 <223> unsure at all n locations

<400> 128
 ggagagacta gacccgctag ctgaggccgcg gcggcgcgct ggacacgaac atgatgggga 60
 gaaaggcgct cggtctgtgt cctcttctcc tctcttggc cgccgccgct gctccggccg 120
 agctcagcgt cggggcggcg gctgcctcgg gcggggtcac cggggccgac tccccgcgcg 180
 ggttcgtctt cggcgctcgc tctccgcgt accaggctga aggtgcagtt gcagaggacg 240
 gaaggaagcc tagcatctgg gacacattca cacatgaagg ctattccctt gacaacgcc 300

caggcgatgt aaactgcgga tcagtatcat aagtacaagg accaacgtaa aagctttctt 360
 gcatgaagaa tgggtgggtcg aatgccctac cgggatgtcg aattggnccc cc 412

<210> 129
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

<400> 129

gagactagac ccgctagctg angccgggcg gcgcgctgga cacgaacatg atggggagaa 60
 aggcgctcgg ctgtgtctcct cttctcctcc tcttgncgc cgccgtcgtt ccggccgagc 120
 tcagcgctcg gggcgggcggc tgccctcgggc gcggtcaccc gggccgactt ccccgcgggg 180
 ttcgtcttcg gcgtcgggtc ctccgggtac cagtcgaagg tgcngttgca gaggacggaa 240
 ggaagcctag catctgggac acnttcacac atgaaggcta ttcccttgac aacgccacag 300
 gcgntg 306

<210> 130
 <211> 318
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(318)
 <223> unsure at all n locations

<400> 130

gnanatgaga ngaganacta gaccgcgtag ctgangccgg gcggcgcgct ggacacgaac 60
 atgatgggga gaanngcgct cggtgtgct cctcttctcc tctcttggc cgccnccgtc 120
 gctccggccg anctcagcgt cgggncggcg gctgcctcgg gcgcggtcac ccggggccgac 180
 ttcccnccng ggttcgtctt cngcgctggc tcctccgct accaggtcga aggtgcagtt 240
 gcagaggacg gaaggaagcc tagcatcttg nacacattca cacatgaang ctattcncca 300
 gacaacgcta natggatg 318

<210> 131

<211> 409
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(409)
 <223> unsure at all n locations

<400> 131

ggaccctggg acatggaacc tgacgccagt cagctaccag gatgattggc atgttggttt 60
 tgtctacgaa cgaaatggag ttctatttgg cgctcacnca aactcctact ggctgtacat 120
 tgtgccgtgg ggcatacaaca aggctgtcag ctatgtcaag gaaacttaca aaaatcctac 180
 aatgatcctt gctgaaaacg gaatggacca acctgggtgat gtcagtatta ctcagggtgt 240
 gcatgacaca gtaagaatcc gttattacag agactacatn actgagctca agaaagcaat 300
 agatgatggg gccagagtca ttgggtactt tgcgtggctg ctgcttgaca acttcgantg 360
 gaagcttggg tacacctcnc cggtttggcc ttngntacct tgaacaaaa 409

<210> 132
 <211> 283
 <212> DNA
 <213> Zea mays

<400> 132

gccaggggat gtgaaaggct ctatagacta tgttggcatc aaccactaca cttcttttcta 60
 catgaaggac cctgggacat ggaacctgac gccagtcagc taccaggatg attggcatgt 120
 tggttttgtc tacgaacgaa atggagttcc attggcgctc acgcaaactc ctactggctg 180
 tacattgtgc cgtggggcat caacaaggct gtcagctatg tcaaggaaat tacaaaaatc 240
 ctacaatgat cctgctgaaa cggaatggac caacctggtg atg 283

<210> 133
 <211> 189
 <212> DNA
 <213> Zea mays

<400> 133

ggcatcaacc actacacttc ttctacatg aaggacctg ggacatggat cctgacacca 60
 gtcagctacc aggatgattg gcatgttggg ttgtctacg aacgaaatgg agttcctatt 120
 ggcgctcacg caaactccta ctggctgtac attgtgccgt ggggcatcaa caaggctgtc 180

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agctatgtc 189

<210> 134
<211> 158
<212> DNA
<213> Zea mays

<400> 134

ggcatgttg ttttgtctac gaacgaaatg gagttcctat tggcgctcac gcaaactcct 60

actggctgta cattgtgccg tggggcatca acaaggctgt cagctatgtc aaggaaactt 120

acaaaaatcc tacaatgatc cttgctgaaa acggaatg 158

<210> 135
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 135

gtcagctacc aggatgattg gcatgttggg ttggccacgg aacggaaaat ggagttccta 60

attggcgctc acggcaacnc cctatggctg taacattgtg ccgtggggca tcaacaaagg 120

ctgtcagcta atgtcnagga aactttacca aaaatcctac aatgatcctt gctgaaaacg 180

gaatggacca actggtgatg tcagtattac tcaggggtgtg catgacacag taagaatcgg 240

tattacagag actacataac tg 262

<210> 136
<211> 476
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(476)
<223> unsure at all n locations

<400> 136

acgcgtacag attctccatc tcttgggtcca gaatactgcc gaagggaacg ctcgaaggag 60

ggattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120

gaatagagcc atttgtaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180

acggtggctt tttaggcgac aggattgtaa aggattacac agacttcgct aaggtgtgct 240
 ttgagaactt cggtgacaag gtgaagaatt ggttgacctt taacgagcca cagacattta 300
 caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
 gtgctcagcc tattgctaac tcactcaccg aaccatacat tgggtggccac aacatncttn 420
 gagcccacgc tatgactggt gacctntaca acaagaatta caagggttca gacggc 476

<210> 137
 <211> 486
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(486)
 <223> unsure at all n locations

<400> 137

cgctcgaagg aggtattaat caggccggca tcaagtacta caaaaagctc atcaacntat 60
 tgatagagaa cggaatagag ccatttgtaa caatttttca ttgggaccgt cctcaagca 120
 ctggaagaca agtacgggtg ctttttaggc gacaggattg taaaggatta cacagacttc 180
 gctaagggtg gctttgagaa cttcggtgac aagggtgaaga attggttgac ctttaacgag 240
 ccacagacat ttacaacctt ttcgtacgga acgggagttt ttgcccctgg acggtgctca 300
 ccaggagaaa aatgtgctca gcctattgct aactcactca ccgaaccata cattgctggc 360
 cacaacatcc ttcgagccca cgctatgact gttgacctct acaacaagaa ttacaagggg 420
 cagacggggc gcattgggct tgcgtttgac gtaatgggtc gcggtgccat atggaaatca 480
 tttctt 486

<210> 138
 <211> 442
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(442)
 <223> unsure at all n locations

<400> 138

acgcgtacag attctccatc tcttgggtcca gaatactgcc gaagggaacg ctggaaggag 60

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gtattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120
gaatagagcc atttgtaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180
acggtggcctt tttaggcgac aggattgtaa aggattacac agacttcgct aagggtgtgct 240
ttgagaactt cggtgacaag gtgaagaatt ggttgacctt taacgagcca cagacattta 300
caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
tgctcagcc tattgctaac tcaactaccg aaccatacat tgctggccac aacattcttn 420
gagccccacct tttgactggt ga 442

```

```

<210>      139
<211>      410
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(410)
<223>      unsure at all n locations

<400>      139

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tgcggatgtc agattgctaa aggaaatagg catgggcnng tacagattct cntcnnttg 60
gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 120
ctacaaaaag ctcacaaact tattgataga gaacggaata gagccatttg taacaatttt 180
tcattgggac gtccctcaag cactggaaga caagtacggt ggcttttttag gcgacaggat 240
tgtaaaggat tacacagact tcgctaagggt gtgcttttgag aacttcggtg acaagggtgaa 300
gaattgggtg acctttaacg agccacagac atttacaacc ttttcgtacc ggaacgggag 360
tttttgcccc tggacagtgc tnaccaggag aaaaaatgtg ctcagnctat 410

```

```

<210>      140
<211>      439
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(439)
<223>      unsure at all n locations

<400>      140

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ctcaagcact ggaagacaag tacgggtggct ttttaggcga caggattgta aaggattaca 60
cagacttcgc taagggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 120

```

ttaacgagcc acagacattht acaacotttt cgtacggaac gggagtthtt gccctggac 180
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 240
 ttgctggcca caacatcctt cgagcccacg ctatgactgt tgacctctac aacaagaatt 300
 acangggtag agacggnccg cattgggctt gcgtttgacg taatgggtcg cgtgccatat 360
 ggaaatacat ttctcgatga acaggcccag gaaaggteet tngatcaaaa cctangatgg 420
 ttctttggan cctgtggte 439

<210> 141
 <211> 326
 <212> DNA
 <213> Zea mays

<400> 141

gattactgaa ggaaataggg atggactcct ataggttctc catctcttgg tccagaatac 60
 tgccgaatgg cacactcgaa ggaggtatta atccatatgg catcaagtac taaaaaatc 120
 tcatcaactt gttggtagag aacggcatag agccatttgt gacaattttc cactgggaca 180
 cgctcaagc actggtagac aagtatgggt gctttttaga tgagaggatt gtaaaagatt 240
 acacagactt cgctaagggt tgctttgaga acttcggtga taaagtaaac aattggttga 300
 cctttaatga gccccaaacg ttttct 326

<210> 142
 <211> 414
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations

<400> 142

gtaaaggatt acacagactt cgctaagggt tgctttgaga acttcggtga caagggtgng 60
 aattggttga cctttaacga gccacagaca tttaaacct tttcgtacgg aacgggagtt 120
 tttgccctg gacggtgctc accaggagaa aaatgtgctc agcctattgc taactcactn 180
 accgaaccat acattgctgg ccacaacatt ctctgagccc acgctatgac tgttgacctt 240
 tacaacaaga attacaaggg tacanaacgn cccattgggc ttgcgtttga cctaattgggt 300
 ccgggccata ntggaaatac atttntngat taanaaggcc angaaagggg ccttgantca 360

aaaacctaga ttgttcnttg aacctntggt cctggngant tacccttttt tatt 414

<210> 143

<211> 420

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(420)

<223> unsure at all n locations

<400> 143

aggacccagg gctctnatng atagagancn gaatntaagc catttgtaac aattcancag 60

ggggnggggtc catcaancac tggaagacaa gtacggnggc tttttaagcg acaggatacg 120

taaaggatta cacagacttc gctaagggtg gctttgagaa ctncggtgac aaggngaaga 180

attggttgac cttaacgag ccacagacat ttacaacctt tncgtacgga acgggagttt 240

ttgccctgg acggtgctca ccaggagaaa aatgtgctca ncctattgct aactcactca 300

ccgaaccata cattgctggc cacaacatcc ttcgagccca cncatgact gttgacctnt 360

acaacaagaa ttacaagggt tcanacggcc gcattgggct tgcgtttgac ntaatgggtc 420

<210> 144

<211> 419

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(419)

<223> unsure at all n locations

<400> 144

aggacgcgtg ggcttatnga tagagaacgg aatagagcca tttgtaacaa tttttcatgg 60

ggancgtccn tcaagcactg gaagacaagt acggtggctt tttangcgac aggattgtaa 120

aggattacac agacttcgct aangtgtgct ttgagaactt cggtgacaag gtgaagaatt 180

ggttgacctt taacgagcca cagacattta caaccttttc gtacggaacg ggagtttttg 240

cccctggacg gtgctcacca ggagaaaaat gtgctcanc cttattgtaac tactcaccg 300

aaccatacat tgctggccac aacatccttc gagcccacgc tatgactggg gacctnttac 360

aacaagaatt acaaggggta cagacgggcg gattgggctt gcgtttggac gtaatgggt 419

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<210> 145
 <211> 262
 <212> DNA
 <213> Zea mays
 <400> 145
 gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 60
 ctacaaaaag ctcatcaact tattgataga gaacggaata gagccatttg taacaatttt 120
 tcattgggac gtccctcaag cactggaaga caagtacggg ggcttttttag gcgacaggat 180
 tgtaaaggat tacacagact tcgctaagggt gtgctttgag aacttcgggtg acaagggtgaa 240
 gaattgggtg acctttaacg ag 262

<210> 146
 <211> 188
 <212> DNA
 <213> Zea mays
 <400> 146
 cagacttcgc taagggtgtgc ttgagaact tcggtgacaa ggtgaagaat tggttgacct 60
 ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gccctggac 120
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 180
 ttgctggc 188

<210> 147
 <211> 442
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(442)
 <223> unsure at all n locations
 <400> 147
 gggaaatcca tggatctaca tgtaccctaa aggcctaaag gatctcctta tgatcatgaa 60
 gaacaaatac ggaaacccgc ctatctatat caccgagaac ggaatcgggg acgttgacac 120
 aaaggataat cctctatcca tgcaagatgc gttggacgac tacaagaggc tagattacct 180
 ccagcgccac atctcagtta tcaaagaatc aatagacttg ggggcggacg tgcgcggcca 240
 cttcacatgg tctctgttgg acaacttcga gtggtctagt ggctacaccg agcggttacgg 300

catcatctac gtcgaccgtg acgacggcta caggcgctac ctgaagcgt cagctaagtg 360
gctgcgagag ttcaacggag ctgccccaaa ggctgaaaag aangntctta cgccagctta 420
gaatgtaggt ggggggtgna gt 442

<210> 148
<211> 450
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(450)
<223> unsure at all n locations

<400> 148

agcacgtcga cttctcagaa gactactcac ntaagctcan ncccagcagc gcctatgcca 60
ctgggggaaa ttngnggacc tgacgggaat tctattggtc ctcctatggg aaatccatgg 120
atctacatgt accctaaagg cctaaaggat ctccttatga tcatgaagaa caaatacggg 180
aaccgccta tctatatnac cgagaacgga atcggggacg ttgacacaaa ggataatcct 240
ctatccatgc aagatgcgtt ggacgactac aagaggctng attacctnca tcgccacatn 300
tcaattatca aagaatcaat agacttgggg gcggacgttc gcggcacttt acatgggtctn 360
tgttggacaa ctttnagtgg tctantggct acaccgagcc gttacggnat tatntacgtn 420
gacngggacn accggtntaca ngcctanctt 450

<210> 149
<211> 444
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(444)
<223> unsure at all n locations

<400> 149

ggataaatta ctatacctca aggttctcta agcacgtcga cttctcagaa gactactgac 60
ctaagctcaa cgccgacgac gcctatgcca ctgcagaaat ctttggacct gacgggaatt 120
ctattgggtcc tcctatggga aatccatgga tctacatgta ccctaaaggc ctaaaggatc 180
tccttatgat catgaagaac aaatacggaa acccgctat ctatatcacc gagaacggaa 240
tcggggacgt tgacacaaaag gataatcctc tatccatgca agatgcgttg gacgactaca 300

agaggctaga ttacctcagc gccacatctc aagttatcaa agaatacaata gacttggggg 360
 ccggacgtgc gccgncactt nacatggnet ttgttgaca acttcgagtg ggctaattgn 420
 taccggagcg gttccgntt attt 444

<210> 150
 <211> 435
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations
 <400> 150

gcgggttcct atgacatatt ggggataaat tactatacct caaggntctc taagcacggn 60
 ggncttctna naagactact cacctaaagc tcaacgccga cgacgcctat gccactgcag 120
 aaatctttgg acctgacggg aattctattg ggtctccta tgggaaatcc atgggatcta 180
 catgtaccct aaaggcctaa aggatctcct tatgatcatg aagaacaaat acggaaaccc 240
 gcctatctat atcaccgaga acggaatcgg ggacgttgac acaaaggata atcctctatc 300
 catgcaagat gccttgacc aactncaaga ggctagatta ccttcagcgc cacatctnaa 360
 ttatcaaaga atcaatagac ttgggggccc gacgttcgcc gncacttnac atggnetctg 420
 ntggacaact tcnag 435

<210> 151
 <211> 230
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(230)
 <223> unsure at all n locations
 <400> 151

caacgccgac gacgcctatn ccaactgcaga aatctttgga cctgacggga attctatttg 60
 tctctctatg ggaaatccat ggatctacat gtaccctaaa ggccctaaagg atcttcttat 120
 gatcatgaag aacaaatcgc gaaacccgcc tatctatata accgagaacg gaatcgggga 180
 cgttgacaca aaggacaatc ctctatccat gcaagatgcg ttggaggact 230

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<210> 152
<211> 246
<212> DNA
<213> Zea mays

<400> 152

cgcttatcta tatcaccgag aacggaatcg gggacgttga cacaaaggac aatcctctat 60
ccatgcaaga tgcgttggag gactacaaga ggctagatta cctccagcgc cacatctcag 120
ttattaaaga atcaatagac ttgggggcg acgtgcgcgg ccacttcaca tggctctctgt 180
tggacaactt cgagtgggtct agtggctaca ccgagcggtta cggcatcatc tacgtcgacc 240
gtgacg 246

<210> 153
<211> 320
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(320)
<223> unsure at all n locations

<400> 153

cccggncgga cntccccgcg gggttcgtct tncgcgtcgg oncncccg gtaccagnnc 60
cgaaggtgca gttgcagagg acggaaggaa gcctagcatc tgggacacat tcacacatga 120
aggctatncc cttgacaacn ccacaggcga tgtaacnncg gatcagtatc ataagtacaa 180
ggacgacgta aagcttctgc atgagatnng tgatgatnnc ctaccggatg tcgattncct 240
ggcctcgact tatcccagat ggtcggggag ccgtgaatcc gaagngctgg agtatnaca 300
caatctcata gatgagtcct 320

<210> 154
<211> 301
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(301)
<223> unsure at all n locations

<400> 154

acgacaaaag caaagcaaag cagcncaaaa aagtttagcc agctagcaag acatggctcc 60

acttggtgct gctgccacga atgcacactg cccatagaag ccacatagta ggacccaaca 120
atgagaattt tccaaggcac caaccttggt catcacaaaa cagaaacaag agactcaggc 180
ttaggtcacg agcacaaagg ataagcagtc agctgcttgc aagccgaaag cttatggccc 240
tgggcaaatt cctaanaagg ggatggtttt cctcctagct tcattcttggg ggcggccacg 300
c 301

<210> 155
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 155
angcanagcg ttcaggatan acatngctgc cacctttgcc ttcactnctc tcnngctacn 60
ggtctgcgct cagagcgcg cncntgttctn tcggcttcac aaggagcgag tncctgaag 120
ntttcgtent cggatccgcn acnncggctt atcagtatga nggtgctgtn ggtgaggatg 180
gtaggagccc aagcatctgg gacaccttca ctcacgcagg ganaatnccg gacaaaagca 240
atgggtgatgt agccgcccgc nggtac 266

<210> 156
<211> 238
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(238)
<223> unsure at all n locations

<400> 156
gaacgctggg tcgacccanc ggcgtccgct tctgcttgc aatcggggtt tcagcttagt 60
ttggagggtg tangagtga ttcagctcgg tttggatgnc actaagattg aaggagcgag 120
aaggagggga ggcaaaggag acagcatatg ggatgtattt acagatgaca aagaacatgt 180
cttagacaga agcaatggag aaattgcagt tgatcactac catcgatata aggaagac 238

<210> 157

<211> 233
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations

<400> 157

cagacgcgtg ggtcgaccan cgcgtccgct tctgcttgtc aatcgggggtt tcagcttagt 60
 ttggagggtg tggagttgat tcagctcggg ttggatggac taagattgaa ggagcgagaa 120
 gggagggagg caaaggagac agcatatggg atgtatttac agatgacaaa gaacatgtct 180
 tagacagaag caatggataa attgcagttg atcactacca tcgatacaag gaa 233

<210> 158
 <211> 462
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(462)
 <223> unsure at all n locations

<400> 158

caaggagaca cctctaccca tggaggatgc cttaaattgac tacaaaaggc tagattacat 60
 cnagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaattg tgcaaggcta 120
 cttcgcttgg tctctgtctg acaactttga atgggttcgcc ggcttcaccg aacgttatgg 180
 cattgtctac gtcgaccgca acaataactg cacgcgctac atgaaggagt ctgccaagtg 240
 gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag attcttacgc cagcttagaa 300
 atcgggggcc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggt ttcgaaccga 360
 aaattttctg tttttttccg ccacgagagg ttctggaggc atactctcca gcaccgtggc 420
 taataacgca ttgttccaat tcagtctggc cttgtcatgc at 462

<210> 159
 <211> 463
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(463)

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<223> unsure at all n locations

<400> 159

gtgctttgat aacttcggcg acaaggtgaa gaattggtg acctttaatg agccccagac 60
attnncttcc ttttcctacg gaactggggg ctttgcccca ggtcggtgct cacctggact 120
agactgtgcc tacccaactg ggaattcact cgtcgagcct tacactgctg gccataacat 180
tctcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 240
ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacggaacat cgtttctgga 300
taaacaggcc gaagaaaggt cctgggacat caacctagga tggttcttag agccagtggg 360
tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac cctttctcaa 420
ggacgagcag aaggagaagc tcgccgntc ctataacatg ttg 463

<210> 160

<211> 466

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(466)

<223> unsure at all n locations

<400> 160

gcgagaacgg ccgcataggt cttgcatttg atgtaatggg tcgtgtgcca tacggaacat 60
catttctaga tgaacaggcc aaagaaaggt ccatggacat taacctagga tggttcttgg 120
agcctgtggt tcgtggtgac tacccttctt caatgagatc gttagcgagg gaacgactac 180
ccttcttcag tgacaaacag caagagaagc ttgtgggac cttataacatg ttgggaataa 240
actactacac ctcaatattc tccaaacata tcgacatctc accaaaatac tcgcctgttc 300
tcaacactga cgacgcctac gctagtcaag aaacgtatgg gcctgacggg aaaccattg 360
gtcctnctat gggaaatccg tggatctact tatacccaga aggcctaaag gatatcctta 420
tgatcatgaa gaacaaatat gggaaacccc acctatctac atnact 466

<210> 161

<211> 441

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(441)
 <223> unsure at all n locations

<400> 161

agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaanng 60
 gtggaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctcttgc 120
 cccaggctcg tgctcacctg gactagactg tgcctacca actggaatt cactcgtcga 180
 gccttacact gctggccata acattctcct agcccacgct gaggtgtgtg atctttacaa 240
 caagcattac aagcgcgacg acaccgcgat agggcttgcg tttgacgtaa tgggtcgtgt 300
 gccatacgga acatcgtttc tggataaaca ggccgaagaa aggtcctggg acatcaacct 360
 aggatggttc ttagagccag tggttcgtgg tgactacccc ttctccatga gatcattggc 420
 tagggaacga ctacccttct t 441

<210> 162
 <211> 444
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(444)
 <223> unsure at all n locations

<400> 162

caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg 60
 gggctgacgg gaagcccatn ggtcctccta tgggaaatcc atggatctac atgtaccctg 120
 agggcttgaa ggatctcctt atgatcatga agaacaata cggaaaccca cctatctaca 180
 tcacggagaa cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg 240
 ccttaaatga ctacaaaagg ctagattaca tccagcgcca catcgctact cttaaggaat 300
 caatagactt gggatcaa atgtgcaaggct acttcgcttg gtctctgctg gacaactttg 360
 aatggttcgc cggcttcacc gaacgttatg gcattgtcta cgtcgaccgn aacaataact 420
 gnacgcgcta catgaangag tctg 444

<210> 163
 <211> 470
 <212> DNA
 <213> Zea mays

<220>

09976054-10150-1

<221> unsure
 <222> (1)...(470)
 <223> unsure at all n locations

 <400> 163

 ctcacctgtg ctcaacactg acgacgcctt tnccagtcna gaagttaacy ggcctgacgg 60
 gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 120
 ggatctcctt atgatcatga agaacaaata cggaaacca cctatctaca tcacggagaa 180
 cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaatga 240
 ctacaaaagg ctagattaca tccagcgcca catcgctact cttaaggaat caatagactt 300
 gggatcaaat gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatgggtcgc 360
 cggcttacct gaacgttatg gcattgtcta cntcgaccgc aacaatnact gnacgcgcta 420
 catgaangag tctgccaagt gggtgaaaca gttcaacgnc nccnaaaaaa 470

<210> 164
 <211> 435
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations

 <400> 164

tanacaatgc cataacgttc ggtgaagccg gcgaaccatt caaagttgtc cagcagagac 60
 caagcgaagt agccttgcaac atttgatccc aagtctattg attccttaag agtagcgatg 120
 tggcgctgga tgtaatctag ccttttgtag tcatttaagg catcctccat gggtagagg 180
 gtctccttgg tatcaacatc cccgattccg ttctccgtga tgtagatagg tgggtttccg 240
 tatttgttct tcatgatcat aaggagatcc ttcaagccct cagggtacat gtagatccat 300
 ggatttccca taggaggacc aatgggcttc ccgtcaggcc cgttaacttc ttgactggcg 360
 taggcgtcgt cagtgttgag cacagggtgag tagtttggtg agatatcgat gtttttggag 420
 aaccgtgagg tgtat 435

<210> 165
 <211> 459
 <212> DNA
 <213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations

 <400> 165

 cagaaggaga agctcgccgg ttcctataac nttgtnggtn gttaaactac tacacctcac 60
 ggggntccga aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 120
 cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggctcct cctatgggaa 180
 atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc atgaagaaca 240
 aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt gataccaagg 300
 agacacctct acccatggag gatgccttaa atgactaaa aaggctagat tacatccagc 360
 gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa ggntacttgc 420
 cttggnctct gctggacaac tttgaatggg ttgcgcggc 459

<210> 166
 <211> 466
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(466)
 <223> unsure at all n locations

 <400> 166

 aagggaaatt tnatgaatg ctctaccggt ccggaattcc cggggtagaa gattacacat 60
 actttgctaa ggtgtgcttt gataacttcg gcgacaaggt gaagaattgg ttgacnttta 120
 nggagcccca gacattnact tccttttcct acggaactgg ggtctttgcc ccaggctcgg 180
 gctcacctgg actagactgt gcctacccaa ctgggaattc actcgtcgag ccttacactg 240
 ctggccataa cattctccta gccacgctg aggctgttga tctttacaac aagcattaca 300
 agcgcnacga caccgcata gggcttgctg ttgacgtaat gggctcgtgtg ccatacggaa 360
 catcgtttct ggataaacag gccgaanaaa ggtcctggga catcaaccta ggatggttct 420
 tagagccagt gggtcgtggt gactaccct tctccatgag atcatt 466

<210> 167
 <211> 478
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(478)
 <223> unsure at all n locations

<400> 167

gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaata ga ctacaaaagg 60
 ntagattnca tccagcgcca catcgctact cttaaggaat caatagactt gggatcaaat 120
 gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatgggtcgc cggcttcacc 180
 gaacgttatg gcattgtcta cgtcgaccgc aacaataact gcacgcgcta catgaaggag 240
 tctgccaagt ggttgaaaca gttcaacgcc gcgaagaacc cagcaagaag attcttacgc 300
 cagcttagaa atcggggggc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggg 360
 ttggaaccga aaattttctg gttttttccg nccgagaggg tctggangca tactnttcaa 420
 caccgnggc taataacgca ttggtncat tcaatctggc cttgtcatgc ctgcaata 478

<210> 168
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 168

ctcaagcact agaagagaag tacggcggat tcttagataa gactcataag aggnnttgaa 60
 atgattacaa aaacttcgct aagggtgtgct tcgacaactt tgggtgacaag gtgaagaatt 120
 ggttgacctt taatgagccc cagacattta cttcattttc ctatggaacc ggggtctttg 180
 cccaggaag atgctcaccg ggactagact gtgcatccc aactgggaat tcaactcgtcg 240
 aaccttacat tgctggccac aacattcttc tagccacgc tgaggctgtt gatctttaca 300
 acaagtatta caagggcgag aacggnccgc ataggtcttg catttgatgt aatgggtcgt 360
 gtgccatacn gaacatcatt tctagatnaa caggcccaan naagggccct ngacattaac 420
 ctangatggn tcntngganc ctgtgnt 447

<210> 169
 <211> 454
 <212> DNA

09976054.101501

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(454)
 <223> unsure at all n locations
 <400> 169
 cgtacgcgcg agctnggncct ntggcgtttg ccccatctcg gtntcacct ggactagact 60
 gtgcctnccc angtggggaat tcaactcgteg agccttacac tgctggccat aacattctcc 120
 tagcccacgc tgaggtgtgt gatctttaca acaagcatta caagcgcgac gacacccgca 180
 tagggcttgc gtttgacgta atgggtcgteg tgccatacgg aacatcgttt ctggataaac 240
 aggccgaaga aaggctcctgg gacatcaacc taggatgggt cttagagcca gtggttcgtg 300
 gtgactaccc cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg 360
 agcagaagga gaagctcgcg gtcctataac atgttgggggt taaactacta cacctcacgg 420
 ttctcaaaaa catcgatatc tcaccaaact actc 454
 <210> 170
 <211> 439
 <212> DNA
 <213> Zea mays
 <400> 170
 cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc gcatgggggt 60
 tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga 120
 agaaagggtcc tgggacatca acctaggatg gttcttagag ccagtggttc gtggtgacta 180
 ccccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 240
 ggagaagctc gccggttcct ataacatgtt ggggttaaac tactacacct cacggttctc 300
 caaaaacatc gatatctcac caaactactc acctgtgctc aacacttgac gacgcctacg 360
 ccagtcaaga aagttaacgg gcctgacggg aagcccattg gtccttctat gggaaatcca 420
 tggatctaca tgtaccctg 439
 <210> 171
 <211> 434
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure

<222> (1)...(434)
 <223> unsure at all n locations

<400> 171

gcattgtaga agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacnngg 60
 tgaagaattg gttgaccttt aatgagcccc agacatttac ttccttttcc tacggaactg 120
 ggggtctttgc cccaggtcgg tgctcacctg gactagactg tgcctaccca actgggaatt 180
 cactcgtcga gccttacact gctggccata acattctcct agcccacgct gaggtctgtg 240
 atctttacaa caagcattac aagcgcgacg acaccgcat agggcttgcg tttgacgtaa 300
 tgggtcgtgt gccatacnga acatcgtttc tggataaaca ggccgaanaa aggtctgggg 360
 acatcaacct aagatgggtc ttaaaaccan tgggtngtng ngactacccc ttcttcatgg 420
 aattttnggg ttgg 434

<210> 172
 <211> 464
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

<400> 172

gtacatncag cgccacatng ctactcttaa ggtttcaata gacttgggat caaatgtgca 60
 agggtncttc gcttgggtctc tgctggacaa ctttgaatgg ntcgccggct tcaccgaacg 120
 ttatggcatt gtctacgtcg accgcaacaa taactgcacg cgctacatga aggagtctgc 180
 caagtgggtg aaacagttca acgccgcnaa gaanccacgc aagaagattc ttacgccagc 240
 ttagaaatcg ggggcctcat gatgtgggtg cagnccataa aaaactgggtg tgtgggtttgg 300
 aaccgaaaat tttctggntt tttccnccac gagaggttct ggaggcatac tctccaacac 360
 cgtggctaata aacgcattgg tccaattcaa gctggccttg catgcatgca ataaataaag 420
 tgatggggtt ncctggttca aaaaactnan naaaaaaagg gggg 464

<210> 173
 <211> 426
 <212> DNA
 <213> Zea mays

<400> 173

09976054.101501

agcagctcaa aactctagct agctaccagg ggggaaaatg gctccacttc tcgccgcagc 60
 catgaaccac gctacccatc cagtccttag aagccatcta ggaccaaca atgagagttt 120
 ctcacgacac cacctatctt cttcaccaca aagcagtaag cgaaggttta accttagctt 180
 tacgccacga tctgcaaggg taggcaatga aaatggagtc caattgttga gcccctcgga 240
 aatccctcga agggactggt tcccctctga cttcatcttt ggtgccgcca cttcagcgta 300
 ccaaattgaa ggtgcatgga acgaagatgg aaagggggaa agcaattggg atcacttctg 360
 ccacaatttt ccggaaggga taatggacgg gagcaatgca gacattggga gcgaattcgt 420
 accaaa 426

<210> 174
 <211> 396
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(396)
 <223> unsure at all n locations
 <400> 174

caaatgtgca aggctacttc gcttgggtctc tgctggacaa ctttgaatgg ttcgccggct 60
 tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa taactgcacg cgctacatga 120
 aggagtctgc caagtgggtg aaacagttca acgccgcgaa gaagcccagc aagaagattc 180
 ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa aaaactgggtg 240
 tgtggttttg aaccgaaaat tttctgnttt tttccgccac gagaggttct ggaggcatac 300
 tctncagcac cgtggctaata aacgcattgt tccaattcaa tctggccttg tcatgcatgc 360
 aataaataaa gtgatggggt tccctgggtc aatata 396

<210> 175
 <211> 435
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(435)
 <223> unsure at all n locations
 <400> 175

aggagaagct cgccgggtcc tataacatgt tgggggttaaa ctactacacc tcacggttct 60
 ccaaaaacat cgatatctca ccaaactact cacctgtgct caaactgac gacgcctacg 120
 ccagtcaaga agttaacggg cctgacggga agccattgg tctcctatg ggaaatccat 180
 ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatcag 240
 gaaaccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 300
 ctctacccat ggaggatgcc ttaaagtact acaaaaggct agattacatn caagcgccac 360
 atcgctactc ttaaggaatc aatagacttg ggatcaaat gtgcaanggg tactttgctt 420
 gggctctgnt ggaca 435

<210> 176
 <211> 453
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(453)
 <223> unsure at all n locations

<400> 176
 gacgtaatgg gtcgtgtgcc atacggaana tcgtttctgg ataaacaggc cgaagaaagg 60
 ncctgggaca tcaacctagg atgggtctta gagccagtgg ttcgtggtga ctaccccttc 120
 tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180
 ctgcccggtt cctataacat gttgggggta aactactaca cctcacggtt ctccaaaaac 240
 atcgatatct cacaaaacta ctcaactgtg ctcaacactg acgacgccta cgccagtcaa 300
 gaagttaacg ggctgacgg gaagccatt ggtcctccta tgggaaatcc atggatctca 360
 tgtaccctga gggcttgaag ggatctcctt atgaatcatg aagnaccaat tccggaacc 420
 cacctatcta cattaccgga gaacgggatt cgg 453

<210> 177
 <211> 409
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(409)
 <223> unsure at all n locations

<400> 177

09976054.101501

tccctataat gagtcgtatt agtangggcat cangtactac agaancctca tcaacttggt 60
 gctagaaanc ggcattnnngc catatgtaac aattttccac tgggatgtac ctcaagcact 120
 agaggagaag tncggcggct tcctagatnn gagtcataag ngcattgtcg aagattacac 180
 atactttgct aagggtgtgct ttgataactt cggcgacaag gtgaagaatt ggttgacctt 240
 taatgagccc cagacattta cttccttttc ctacggaact ggggtctttg ccccaggctcg 300
 gtgctcacct ggactagact gtgcctaccc anctgggaat tcaactcgctc agccttacac 360
 tgctggccat aacattctcc tancccacgc tgaggctggt gatctttac 409

<210> 178
 <211> 371
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(371)
 <223> unsure at all n locations

<400> 178

ttaaactact acacctcagc gttctccaaa aacatcgata tctcaccaaa ctactcacct 60
 gtgctcaaca ctgacgacgc ctacgccagt ccaagaagtt aacgggcctg acggaagcc 120
 cattggctct cctatgggaa atccatggat ctacatgtac cctgagggct tgaaggatct 180
 ccttatgatc atgaagaaca aatacggaaa cccanctatc tacatcacgg agaacggaat 240
 cggggatggt gataccaagg agacacctct acccatggag gatgccttaa atgactacaa 300
 aaggctagat tacatccagc gccacatcgc tactcttaag gaatcaatag acttgggatc 360
 aatgtgcaag g 371

<210> 179
 <211> 342
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(342)
 <223> unsure at all n locations

<400> 179

gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgctgct gccatgaacc 60

097604-101501

acgctgcagc ccacccctggc cttaggagcc acctagtagg acccaacaat gagagtttctn 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 240
aaatcccaca aaggggactgg ttcccctctg acttcacctt cgggtgccgc acttcagcgt 300
accaaattga aggtgcttgg aatgaagatg gaaaggggga aa 342

<210> 180
<211> 464
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(464)
<223> unsure at all n locations

<400> 180

gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgtgct gccatgaacc 60
acgctgcagc ccacccctggc cttaggagcc acctagtagg acccaacaat gagagtttct 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 240
aaatcccaca aaggggactg ggtcccctct gacttcacct tcngtgccga cacttcagng 300
gtnccaaatt gaaggtgctt ggaatgaaga tggaaagggg gaaagcaact gggatcactt 360
ntggcacaat cattcggaag ggatactggg acgggagcna attcanaaca ttggagcgaa 420
tttcgtacca ntatgtacaa aaacgggacg ttnagatttg ctna 464

<210> 181
<211> 463
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(463)
<223> unsure at all n locations

<400> 181

ggtcaagtaa cnggggtcga nccangcctc taaatagact cnnattacta aggtgtgctt 60
tgataacttc ggcgacaang tgaagaattg gttgacctt aatgagcccc agacatttac 120
ttccttttcc tacggaactg ggggtctttgc cccaggtcgg tgctcacctg gactaagact 180

09076054 "101501

gtgcctaccc aactgggaat tcaactcgctg agccttacac tgctggccat aacattctcc 240
tagccccacgc tgaggctggt gatctttaca acaagcatta caagcgcgac gacacccgca 300
tagggcttgc gtttgacgta atgggtcgtg tgccatacgg aacatcgttt ctgggataaa 360
canggccgaa gaaaagtcct gggaaatcaa cctanggatg ggctcctaaag ccaattgntc 420
ntggatgaacn accccntcnc aananattat tggctaggga aca 463

<210> 182
<211> 337
<212> DNA
<213> Zea mays

<400> 182

gggaaatcca tggatctaca tgtaccctga gggcttgaag gatctcctta tgatcatgaa 60
gaacaaatac ggaaccacac ctatctacat cacggagaac ggaatcgggg atgttgatac 120
caaggagaca cctctaccca tggaggatgc cttaaatgac tacaaaaggc tagattacat 180
ccagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaagtg tgcaaggcta 240
cttcgcttgg tctctgctgg acaactttga atgggtcgcg ggcttcaccg aacgttatgg 300
cattgtctac gtcgaccgca acaattactg cacgcgt 337

<210> 183
<211> 343
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)... (343)
<223> unsure at all n locations

<400> 183

acggaacatc gtttctggat aaacaggccg aagaaaggtc ctgggacatc aacctaggat 60
gnttcttaga gccagtgggt cgtgggtgact accccttctc catgagatca ttggctaggg 120
aacgactacc cttcttcaag gacgagcaga aggagaagct cgccggttcc tataacatgt 180
tggggttaaa ctactacacc tcacggttct ccaaaaacat cgatatctca ccaaactact 240
cacctgtgct caacactgac gacgcctacg ccagtcaaga agttaacggg cctgacggga 300
agcccatggg cctcctatgg gaaatccatg gatctacatg tac 343

<210> 184
 <211> 415
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(415)
 <223> unsure at all n locations

 <400> 184

ccactgagga tgtacctcaa gcactagaag agaagtacgg cggcttccta gataagagtc 60
 ataagagcat tgtagaagat tacacatact ttgctaaggt gtgctttgat aacttcggcg 120
 acaagggtgaa gaattgggtg acctttaatg agccccagac atttacttcc ttttcctacg 180
 gaactgggggt ctttgcccca ggtcgggtgct cacctggact agactgtgcc tacccaactg 240
 ggaattcact cgtcgagcct tacactgctg gccataacat tctcctagcc cacgctgagg 300
 ctgttgatct ttacaacaag cattacaaag cgcgacgaca acccgcataa gggcttgccg 360
 ttggacgtta atgggtcctt gttgccatac ggaaacatcg tttctggata aacag 415

<210> 185
 <211> 443
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations

 <400> 185

ggcattgtct acgtcgaccg caaaaataac tacacgcgct acatgaagga gtcagccang 60
 tgggttaaaag agttcaatac tgcaagaag cctagcaaga agattattac gccagcttaa 120
 aaacatggga cctcgtgatg tgggtacggt gccacccatg aaataaaaac ctagtgtgtg 180
 gtttgaaacc taaatttttc tttttctttt ttgcaccatg agagaggtag tggagtcata 240
 ttctccagca ccgtggctaa taatgtattg ttgcagtaca atctagcatt gtcgtcatgc 300
 aataaataaa gtgactggtt tccctatttc aaannnnnnn nnnnnnnnnn nccgcccttt 360
 ttttttatct cattccgtat tttatttcct ttttcaaact ccactctgca aacagtgtca 420
 aacagtgttg tcatctacag ttt 443

<210> 186

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<211> 329
<212> DNA
<213> Zea mays

<400> 186

attggtcctc ctatgggaaa tccatggatc tacatgtacc ctgagggctt gaaggatctc 60
cttatgataa tgaagaacaa atacggaaac ccacctatct acatcaccga gaacggaatc 120
gggggatgttg ataccaaaga gacacctcta cccatggagg ctgccttaaa tgactacaaa 180
aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca 240
aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatggtt tgccggcttc 300
accgaacggt atggcattgt ctacgtcga 329

<210> 187
<211> 332
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(332)
<223> unsure at all n locations

<400> 187

caaagctcta gttctagcta gctagcaaan ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
aaccttagct ttactacagc atctgcaaga gtaggcagcc aaaatggagt ccaaattgtg 240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacctt cggtgccgcc 300
acttcagcgt accaaattga aggtgcttgg aa 332

<210> 188
<211> 487
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(487)
<223> unsure at all n locations

<400> 188

gcgcggacgc cctgggacat caacctanga tngtnnttag agccactggn gcattggtga 60

ctaccctgg nccnganac catnggctng ggaacgacta cccttnnca angccganca 120
 naangagaan ctncggntc ctataacatg ttncggtaa actactacac etcacggttc 180
 tccanaaaca tcgatatetc accaaactac tcacctgtgc tcaacactga cgacccctac 240
 nccngtcaag annttaacgn gcctcacngg aancecattg gtcctcttat cggaaatcca 300
 tgnatctaca tgnaccctga gggcttgaag gatcttctta tgatcatgan naacnantac 360
 tggaacccca cctatctaca tcacggataa ccgaatccng gatgntgatc caatgaagac 420
 acctttancc atggnacgat ccttananta ctnccaaaan cttgattaca ntcancggca 480
 attngtt 487

<210> 189

<211> 343

<212> DNA

<213> Zea mays

<400> 189

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct 60
 gccatgaacc acgctgcagc ccatoctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct caccggacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacag atctgcaaga gtaggcagcc aaaatggagt ccaaatgttg 240
 agcccctega aatcccacaa agggactggg tcccctctga cttcaccttc ggtgccgcca 300
 ttcagcgtac caaattgaag gtgcttgga tgaagatgga aag 343

<210> 190

<211> 331

<212> DNA

<213> Zea mays

<400> 190

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
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 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aagggtgaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
 aatggtgagc cctcggaaa tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300
 tgccgccact tcagcgtacc aaattgaagg t 331

<210> 191
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 191

caaagctcta gttctagcta gctagcaaag ggggggaaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgcgctct tcttctccac agagcagcaa gcaagggtgt 180
 aaccttagct ttactacagc atctgcaaga gtaggcagcc aaaatggagt ccaaatgttg 240
 agccctcgg aaatcccaca aagggaactgg tccccctctg acttcacctt cggtgccgcc 300
 acttcagcgt accaaattga aggt 324

<210> 192
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 192

gaaaatggct ccgcttctcg ctgctgccat gaaccacgct gcagcccatc ctggccttag 60
 gagccaccta gtaggaccca acaatgagag tttctcacgg caccacctgc cgtcttcttc 120
 tccacagagc agcaagcgaa ggtgtaacct tagctttact acacgatctg caagagtagg 180
 cagccaaaat ggagtcctaaa tgttgagccc ctcgaaaatc ccacaaaggg actggttccc 240
 ctctgacttc accttcggtg ccgccacttc agcgtaccaa attgaagggtg cttggaatga 300
 agatggaaaag ggggaaagca ac 322

<210> 193
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 193

cgacgacacc cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc 60
 gtttctggat aaacaggccg aagaaaggct ctgggacatc aacctaggat ggttcttaga 120
 gccagtgggt cgtggtgact accccttctc catgagatca ttggctaggg aacgactacc 180
 cttcttcaag gacgagcaga aggagaagct cgccggttcc tataacatgt tggggttaaa 240
 ctactacacc tcacggttct caaaaaacat cgatatctca ccaaactact cacctgtgct 300

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caacactgac gacgcctacg ccat 324

<210> 194

<211> 331

<212> DNA

<213> Zea mays

<400> 194

cttggtgcta gaaaacggca tagagccata tgtaacaatt ttccactggg atgtacctca 60

agcactagaa gagaagtacg gcggcttcct agataagagt cataagagca ttgtagaaga 120

ttacacatac tttgctaagg tgtgctttga taacttcggc gacaagggtga agaagggtga 180

cctttaatga gccccagaca ttacttcct ttctctacgg aactggggtc tttgccccag 240

gtcggtgctc acctggacta gactgtgcct acccaactgg gaattcactc gtcgagcctt 300

acactgctgg ccataacatt ctctagccc a 331

<210> 195

<211> 320

<212> DNA

<213> Zea mays

<400> 195

gaggctgttg atctttacaa caagcattac aagcgcgacg acaccgcat agggcttgcg 60

tttgacgtaa tgggtcgtgt gccatacggg acatcgtttc tggataaaca ggccgaagaa 120

aggtcctggg acatcaacct aggatgggtc ttagagccag tgggtcgtgg tgactacccc 180

ttctccatga gatcattggc tagggaacga ctacccttct tcaaggacga gcagaaggag 240

aagctcgccg gttctataa catgttgggg ttaaactact acacctcacg gttctccaaa 300

aacatcgata tctcaccaaaa 320

<210> 196

<211> 322

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(322)

<223> unsure at all n locations

<400> 196

gggaacgact acccttcttc aaggacgagc agaaggagaa gctcgccggt tcctataaca 60

tgttgggggt aaactactac acctcacggt tctccaaaaa catcgatatc tcaccaaact 120
 actcacctgt gctcaacact gacgacgcct acgccagtca agaagttaac gggcctgacg 180
 ggaagcccat tggctcctct atgggaaatc catggatcta catgtaccct gagggcttga 240
 aggatctcct tatgatcatg aagaacaaat acggaaaccc acctatctnc atcacggaga 300
 acggaatcgg ggatgttgat ac 322

<210> 197
 <211> 330
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(330)
 <223> unsure at all n locations

<400> 197
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 tgagggcttg aaggatctcc ttatgatcat gaagaacaaa tacggaaacc cacctatcta 120
 catcacggag aacggaatcg gggatgttga taccaaggag acacctctac ccatggagga 180
 tgccttaaata gactacaaaa ggctagatta catccagcgc cacatcgcta ctcttaagga 240
 atcaatagac ttgggatcaa atgtgcaagg ctacttcgct ggtctctgct ggacaacttt 300
 gaatggttcg cgggcttcac cgaacgntat 330

<210> 198
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 198
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agcccctcgg aaatcccaca aagggactgg ttcccctctg acttcacctt cgggtgccgcc 300
 acttcagcgt accaaatt 318

<210> 199
<211> 318
<212> DNA
<213> Zea mays

<400> 199

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
aaggaaatgg gcatggacgc atataggttc totatctctt ggcccagaat actgccgaag 120
ggaaccaaag aaggaggtat taaccgcat ggcacaaagt actacagaaa cctcatcaac 180
ttgttgctag aaaacggcat agagccatat gtaacaattt tccactggga tgtacctcaa 240
gcactagaag agaagtacgg cggcttccta gataagagtc ataagagcat tgtagaagat 300
tacacatact ttgctaag 318

<210> 200
<211> 341
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(341)
<223> unsure at all n locations
<400> 200

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cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
caccacctat cttcttcanc gcaaagcagt aaagcgaagg tttaacctta gctttacgcc 180
acgatctgca agagtaggca atcaaaatgg agtccaattg ttgagccctt cggaaatccc 240
tcgaagggac tgggtcccct ccgacttcat ctttggtgcc gccacttcag cgtaccaaatt 300
tgaaggtgct tggaacgaag atggaaaggg ggaaagcaat t 341

<210> 201
<211> 323
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(323)
<223> unsure at all n locations
<400> 201

cctagtagga cccaacaatg agagtttctc acggcaccac ctgccgtctt cttctccaca 60
gagcagcaag cgaaggtgta accttagctt actacacgat ctgcaagagt aggcagccaa 120
aatggagtcc aaatgttgag cccctcggaa atcccacaaa gggactgggt cccctctgac 180
ttcaccttcg gtgccgccac ttcagcgtac caaattgaag gtgcttgga tgaagatgga 240
aagggggaaa gcaactggga tcacttctgc cacaatcatc cggaaangat actggacngg 300
agcaattcag acattggagc gaa 323

<210> 202
<211> 318
<212> DNA
<213> Zea mays
<400> 202

aaaatggagt ccaaattgtt agccccctcg aaatcccaca aagggactgg tccccctctg 60
acttcacctt cgggtgccgc acttcagcgt accaaattga aggtgcttg aatgaagatg 120
gaaaggggga aagcaactgg gatcacttct gccacaatca tccggaaagg atactggacg 180
ggagcaattc agacattgga gcgaattcgt accatatgta caaaacggac gtcagattgc 240
tcaaggaaat gggcatggac gcatataggt tctctatctc ttggcccaga atactgccga 300
aggaaccaa gaaggagg 318

<210> 203
<211> 312
<212> DNA
<213> Zea mays
<400> 203

gccatatgta acaattttcc actgggatgt acctcaagca ctagaagaga agtacggcgg 60
cttcctagat aagagtcata agagcattgt agaagattac acatactttg ctaaggtgtg 120
ctttgataac ttcggcgaca aggtgaagaa ttggttgacc tttaatgagc cccagacatt 180
tacttccttt tcctacggaa ctgggggtct tgccccaggt cgggtgctcac ctggactaga 240
ctgtgcctac ccaactggga attcactcgt cgagccttac actgctggcc ataacattct 300
cctagcccac gc 312

<210> 204
<211> 315
<212> DNA
<213> Zea mays

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<220>
 <221> unsure
 <222> (1)...(315)
 <223> unsure at all n locations

<400> 204

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 acgctgcagc ccattctggc cttaggagcc acctagtagg acccaacaat gagngtttct 120
 cacggaacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt aaccttagct 180
 ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agccccctcg 240
 aaatcccaca aagggactgg tccccctctg acttcacctt cggtgccgcc acttcagcgt 300
 accaaattga aggtg 315

<210> 205
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 205

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 ctaagggtgtg cttcgacaac tttggtgaca aggtgaagaa ttggttgacc tttaatgagc 120
 cccagacatt tacttcattt tcctatggaa cgggggtctt tgccccagga cgatgctcac 180
 cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 240
 acaacattct tctagccac gctgaggtctg ttgatcttta caacaagtat tacaagggcg 300
 agaacggccg cataggtctt g 321

<210> 206
 <211> 335
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(335)
 <223> unsure at all n locations

<400> 206

tctacatgta ccttgagggc ttgaaggatc tccttatgat antgaagaac aaatacggaa 60
 acccacctat ctacatcacc gagaacggaa tccgggggatg ttgataccaa agagacacct 120

ctacccatgg aggctgcctt aaatgactac aaaaggctag attacatcca gcgccacata 180
cgctactctt aaggaatcaa tagacttggg atcaaatgtg caaggctact tcgcttggtc 240
tctgctggac aactttgant ggtttgccgg cttcaccgaa cgttatggcn tgtctacgtc 300
gaccgcaaca ataactgcac gcgctacatg aagga 335

<210> 207
<211> 346
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(346)
<223> unsure at all n locations

<400> 207

gaagaacaaa tacggaaacc cacctatcta catcacngag aacggaatcg gggatgttga 60
taccaaggag acacctctac ccatggagga tgccttaaata gactacaaaa ggctagatta 120
catccagcgc cacatcgcta ctcttnaggn atcnatagac ttgggatcaa atgtgcaagg 180
ctacttcgct tggctctctgc tggacaactt tgaatgggtc gccggcttca ccgaacgtta 240
tggcattgtc tacgtcgacc gcaacnataa ctgcacngt acatgaagga gtctgccaa 300
tggttgaaac ngttcnacgc nncgaagaag cccngcaag aagatt 346

<210> 208
<211> 360
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(360)
<223> unsure at all n locations

<400> 208

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cgacacccgc atagggattg cgtttgacgt aatgggtcgt gtgccatacg gaacatcggt 120
tctggataaa caggccgaag aaaggctctg ggacatcaac ctaggatggt tcttagagcc 180
agtggttcgt ggtgactacc cttctccat gagatcattg gctagggaac gactaccctt 240
cttcaaggac gagcagaagg agaagctcgc cggttcctat aacattgttg gggttaacta 300
tacacctcag gttctccaaa aacatcgata tctcaccaac tatcactgtg ctcaacntga 360

<210> 209
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 209

gctagctagc aaaggggggg aaaatggctc cgcttctcgc tgctgccatg aaccacgctg 60
 cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120
 accacctgcc gtcttcttct ccacagagca gcaagcgaag gtgtaacctt agctttacta 180
 cacgatctgc aagagtaggc agccaaaatg gagtccaaat gttgagcccc tcggaaatcc 240
 cacaaaggga ctgggtcccc tctgacttca ccttcgggtgc cgccacttca gcgtaccaa 300
 ttgaagg 307

<210> 210
 <211> 321
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(321)
 <223> unsure at all n locations

<400> 210

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 agaagccatc taggacccaa caatgngagt ttctcacgac accacctatc ttcttcacca 120
 caaagcagta agcgaagggt taaccttagc tttacgccac gatctgcaag ggtaggcaat 180
 gaaaatggag tccaattgtt gagccctctg gaaatcctc gaagggactg gttccctctt 240
 gacttcattt ttggtgccgc cacttcagcg taccaaattg aagggtgcatg gaacgaagat 300
 ggaaaggggg aaagcaattg g 321

<210> 211
 <211> 308
 <212> DNA
 <213> Zea mays

<400> 211

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgtgcgac ccattctggc cttaggagcc acctagtagg acccaacaat 120

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gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacctt cggtgccgcc 300
 acttcagc 308

<210> 212
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 212

actgacgacg cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggtcct 60
 cctatgggaa atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgac 120
 atgaagaaca aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatgtt 180
 gataccaagg agacacctct acccatggag gatgccttaa atgactacaa aaggctagat 240
 tacatccagc gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa 300
 ggctattcgc tggctctctgc 320

<210> 213
 <211> 331
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(331)
 <223> unsure at all n locations

<400> 213

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 cacgctaccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
 caccaactat cttcttcacc acaaagcagt aagcgaaggt ttaaccttag ctttacgcca 180
 cgatctgcaa gggtaggcaa tgaaaatgga gtccaattgt tgagcccctc ggaaatccct 240
 cgaagggact ggttcccctc tgacttcaac tttggtggcg gcacttcagc gtanccaatt 300
 gaaagtgcac ggaacgaaga tggaaagggg g 331

<210> 214
 <211> 304

<212> DNA
<213> Zea mays

<400> 214

cattctccta gccacgctg aggtgttga tctttacaac aagcattaca agcgcgacga 60
caccgcata gggcttgctg ttgacgtaat gggctgctg ccatacggaa catcgtttct 120
ggataaacag gccgaagaaa ggtcctggga catcaacctt ggatggttct tagagccagt 180
ggttcgtggt gactaccctt tctccatgag atcattggct agggaacgac tacccttctt 240
caaggacgag cagaaggaga agctcgccgg ttcctataac atgttggggg taaactacta 300
cacc 304

<210> 215
<211> 307
<212> DNA
<213> Zea mays

<400> 215

caaaactcta gctagctagc aggggggggaa atggctccac ttctcgccgc agccatgaac 60
cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
caccacctat cttcttcacc gcaaagcagt aagcgaagggt ttaaccttag ctttacgcca 180
cgatctgcaa gagtaggcaa tcaaaatgga gtccaattgt tgagcccttc ggaaatccct 240
cgaagggact ggttcccttc cgacttcctc tttggtgccg ccacttcagc gtaccaaatt 300
gaagggtg 307

<210> 216
<211> 323
<212> DNA
<213> Zea mays

<400> 216

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgccat 60
gaaccacgct gcagcccatc ctggccttag gagccacctt gtaggaccca acaaatgaga 120
gtttctcacg gcaacaacct gccgtcttct tctccacaga gcagcaagcg aaagggtgtaa 180
ccttagcttt actacacgat ctgcaagagt aggcagccaa aatggagtcc aaatggtgag 240
cccctcgga atccacaaa gggactggtt cccctctgac ttcaccttcg gtgccgccac 300
ttcagcgtag caaattgaag gtg 323

<210> 217
 <211> 303
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

 <400> 217

 anaaaacggc atagagccat atgtaacaat tttccactgg gatgtacctc aagcactaga 60
 agagaagtac ggcggcttcc tagataagag tcataagagc attgtagaag attacacata 120
 ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 180
 tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc caggctcgggtg 240
 ctcacctgga ctagactgtg cctaccaaac tgggaattca ctcgtcgagc cttacactgc 300
 tgg 303

<210> 218
 <211> 303
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

 <400> 218

 gctagattac atccagcgcc acatcgctac tottaaggaa tcaatagact tgggatcaaa 60
 tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggttcg ccggcttcac 120
 cgaacgttat ggcattgtct acgtcgaccg caacaataan tgcacgcgct acatgaagga 180
 gtctgccaaag tgggtgaaac agttcaacgc cggaagaag cccagcaaga agattcttac 240
 gccagcttag aaatcggggg cctcatgatg tgggtgcagc ccataaaaaa ctggtgtgtg 300
 gtt 303

<210> 219
 <211> 309
 <212> DNA
 <213> Zea mays

 <220>

<221> unsure
 <222> (1)...(309)
 <223> unsure at all n locations

<400> 219

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caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct   60
gccatgaacc acgctgcagc ccacccctggc cttaggagcc acctagtang acccaacaat  120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt  180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg  240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacttc ggtgccgcca  300
cttcagcgt                                     309
  
```

<210> 220
 <211> 299
 <212> DNA
 <213> Zea mays

<400> 220

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caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct   60
gccatgaacc acgctgcagc ccacccctggc cttaggagcc acctagttag acccaacaat  120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt  180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg  240
agccccctcg aaatcccaca aagggactgg ttccccctctg acttcacctt cggtgccgc   299
  
```

<210> 221
 <211> 312
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(312)
 <223> unsure at all n locations

<400> 221

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cnancagctc aaagctctag ttctagctag ctagcaaagg gggggaaaaat ggctccnctt   60
ctcgctgctg ccatgaacca cgctgcagcn catcctggcc ttaggagcca cctagtagga  120
cccaacaatg agagtttctc acggcaccac ctgcngtctt cttctccaca gagcagcaag  180
cgaaggtgta accttagctt tactacacga tctgcaagag taggcagcca aaatggagtc  240
  
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caaatgttga gcccctcgga aatcncacaa agggactggg tccccctctga cttcaccttc 300
 ggtgccgcca ct 312

<210> 222
 <211> 309
 <212> DNA
 <213> Zea mays
 <400> 222

caatthttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcttagata 60
 agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc tttgataact 120
 tcggcgacaa ggtgaagaat tgggtgacct ttaatgagcc ccagacattt acttcctttt 180
 cctacggaac tggggctcttt gcccaggtc ggtgctcacc tggactagac tgtgcctacc 240
 caactgggaa ttcactcgtc gagccttaca ctgctggcca taacattctc ctagcccagc 300
 tgaggctgt 309

<210> 223
 <211> 305
 <212> DNA
 <213> Zea mays
 <400> 223

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 acacgatctg caagagtagg cagccaaaat ggagtccaaa tgttgagccc ctcggaatc 120
 ccacaaaggg actggttccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa 180
 attgaagggtg cttggaatga agatggaaa ggggaaagca actgggatca cttctgccac 240
 aatcatccgg aaaggatact ggacgggagc aattcagaca ttggagcgaa ttcgtaccat 300
 atgta 305

<210> 224
 <211> 319
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(319)
 <223> unsure at all n locations
 <400> 224

aaccaccta tctacatcaa ngagaacgga atcgnggatg ttgataccaa ggagacacct 60
ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca gcgccacatc 120
gctactctta aggaatcaat agacttgga tcaaagtgc aaggctactt cgcttggtct 180
ctgctggaca actttgaatg gtgcgcggc ttcaccgaac gttatggcat tgtctacgtc 240
gaccgcaaca ataactgcac gcgtacatg aaggagtctg ccagtggttg aaacagttca 300
ngccgcgaag aagcccagc 319

<210> 225
<211> 297
<212> DNA
<213> Zea mays

<400> 225

tttacttctt tttctacgg aactgggggc ttgccccag gtcgggtgctc acctggacta 60
gactgtgcct acccaactgg gaattcactc gtgcagcctt acactgctgg ccataacatt 120
ctcctagccc acgtgagggc tgttgatctt tacaacaagc attacaagcg cgacgacacc 180
cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc gtttctggat 240
aaacaggccg aagaaaggc ctgggacatc aacctaggat ggttcttaga gccagtg 297

<210> 226
<211> 337
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(337)
<223> unsure at all n locations

<400> 226

ctctgctggg acaactttga atggttcgcc ggcttcaccg aacgttatgg gcattgtcta 60
cgtcgaccgc aacaataact gcaacgcgct aacatgaagg agtctgcaa gtggttgaaa 120
cagttcaacg ccgcgaagaa gccagcaag aagattctta cgccagctta gaaatcgggg 180
gcctcatgat gtgntgcag ccataaaaa actggtgtgt ggtttcgaa cgaaaatttt 240
ctgttttttt tccgccacga gaggttctgg aggcatactc tccagcaccg tggctaataa 300
cgcattgttc cattcagtct ggccttgatc tgcattgc 337

<210> 227

09976054.101501

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<211>      317
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(317)
<223>      unsure at all n locations

<400>      227

cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg aaccntagct   60
ttacnacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg  120
aaatcccaca aaggggactgg ttccccctctg acttcaactt cggtgccgcc acttcagcgt  180
accaaattga agntgcttgg aatgaagatg gaaaggggga aagcaactgg gatcacttct  240
ggcacaatca tcggaaagga tactggacgg gagcnantca gacattggag cgaantcgta  300
ccatatgtac aaacggg                                     317

<210>      228
<211>      320
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(320)
<223>      unsure at all n locations

<400>      228

tgccgnnttc ttctncacag agcagcangc gtaggtgtaa ccttagcttt actacacgnt   60
ctgcaagagt aggcngccaa aatggantcc aaatgttgag cccctcggaa atcccacaaa  120
gggactgggt cccctctgac ttcaccttcg gtgccgccac ttcagcgtac caaattgaag  180
gtgcttgga tgaagatgga aagggggaaa gcaactggga tcacttctgc cacaatcatc  240
cggaaaggat actggacngg agcaattcag acattggagc gaattcgtcc atatgttcaa  300
aacggacgtc agattgctna                                     320

<210>      229
<211>      343
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(343)

```

<223> unsure at all n locations

<400> 229

gcgacgacac ccgcataggg cttgcgtttg acgtaatggg tcgtgtgccac tacngaacat 60
cgtttctgga taaacaggcc gaagaaaggt catgggacat caacctagga tggttcttag 120
agccagtggg tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac 180
ccttcttcaa ggacgagcag aaggagaagc tcgccggttc ctataacatg ttgggggttaa 240
actactacac ctcacgggtc tccaaaaaca tcgacatctc accaaactat cactgtgctc 300
aacatgacga ccgcctacgc catcaagaag tangggctga cgg 343

<210> 230

<211> 300

<212> DNA

<213> Zea mays

<400> 230

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
aagggtgaac cttagcttta ctacacgac tgcaagagta ggcagccaaa atggagtcca 240
aatgttgagc ccctcggaat tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300

<210> 231

<211> 295

<212> DNA

<213> Zea mays

<400> 231

ctcaaagctc tagttctagc tagctagcaa aggggggggaa aatgggtccg cttctcgtcg 60
ctgccatgaa ccacgctgca gccatcctg gccttaggag ccacctagta ggacccaaca 120
atgagagttt ctcacggcac cacctgccgt cttcttctcc acagagcagc aagcgaaggt 180
gtaaccttag ctttactaca cgatctgcaa gagtaggcag ccaaatgga gtccaaatgt 240
tgagcccctc ggaaatccca caaagggact ggttcccctc tgacttcacc ttcgg 295

<210> 232

<211> 461

<212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

<400> 232

agccacaatt ttccgnaaag gataatggga cggggagcat tgcaagacat tgggcccatt 60
 ncgtaccata tngtacaaaa cggtatngtca gattgctnga aggaaatggg catggacgca 120
 tataggttct ctatctcttg gcctagaata ctggcctaaa ggggaacggt ccaaaggagg 180
 tattaaccag gatggcatcg attactacaa aaaggctcat caacttggtg ctagagaatg 240
 gcatagagcc atatgtaaca atttccact gggatgtccc tcaagcacta gaagagaagt 300
 acggcgggatt cttagataag actcataaga ggattgtaaa tgattacaaa aacttcgcta 360
 aggtgtgctt cgacaacttt ggtgacaang tgaagaantg gttgancntt aatgaagccc 420
 caaacattta cctcaatttc ccaanngaaa cgggggtcct t 461

<210> 233
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 233

ctcgtcgagc cttacactgc tggccataac attctcctag cccacgctga ggctgttgat 60
 ctttacaaca agcattacaa gcgcgacgac acccgcatag ggcttgctgt tgacgtaatg 120
 ggtcgtgtgc catacggaac atcgtttctg gataaacagg ccgaagaaag gtcctgggac 180
 atcaacctag gatggttctt agagccagtg gttcgtggtg actaccctt ctccatgaga 240
 tcattggcta gggaacgact acccttcttc aaggacgagc agaaggagaa 290

<210> 234
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 234

gaaggatctc cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga 60
 gaacggaatc ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa 120
 tgactacaaa aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga 180
 cttgggatca aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatgggt 240

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cgccggcttc accgaacggt atggcattgt ctacgtcgac cgcaacaata 290

<210> 235
 <211> 291
 <212> DNA
 <213> Zea mays
 <400> 235

cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc gcatagggct 60
 tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga 120
 agaaagggtca tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta 180
 ccccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 240
 ggagaagctc gccgggttcct ataacatggt ggggttaaac tactacacct c 291

<210> 236
 <211> 288
 <212> DNA
 <213> Zea mays
 <400> 236

gtcataagag cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg 60
 gcgacaagggt gaagaattgg ttgacctta atgagcccca gacatttact tccttttcct 120
 acggaactgg ggtctttgcc ccagggtcggg gctcacctgg actagactgt gcctacccaa 180
 ctgggaattc actcgtcgag ccttacctg ctggccataa cattctccta gccacgctg 240
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcga 288

<210> 237
 <211> 288
 <212> DNA
 <213> Zea mays
 <400> 237

gggacatcaa cctaggatgg ttcttagagc cagtgggtcg tggtgactac cccttctcca 60
 tgagatcatt ggctagggaa cgactaccct tcttcaagga cgagcagaag gagaagctcg 120
 ccggttccta taacatgttg ggggttaact actacacctc acggttctcc aaaaacatcg 180
 atatctcacc aaactactca cctgtgctca aactgacga cgcctacgcc agtcaagaag 240
 ttaacggggc tgacgggaag ccattgggtc ctctatggg aatccat 288

09975054.101501

<210> 238
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 238

caagcgcgac gacacccgca tagggcttgc gtttgacgta atgggtcgtg tgccatacgg 60
 aacatcgttt ctggataaac aggccgaaga aaggctctgg gacatcaacc taggatgggt 120
 cttagagcca gnggttcgtg gtgactaccc cttctccatg agatcattgg ctagggaacg 180
 actacccttc ttcaaggacg agcagaagga gaagctcgcc ggcttcctata acatgttggtg 240
 gttaaactac tacacctcac gggtctccaa aaacatcgat atctcaccaa 290

<210> 239
 <211> 292
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(292)
 <223> unsure at all n locations

<400> 239

tgcattgcta ctctgcttgg tctctgctgg ataactttga atgggtacgcc ggctacaccg 60
 aacgttatgg cattgtctac gtcgaccgca aaaataacta cacgcgctac atgaaggagt 120
 cagccaagtg gttaaaagag ttcaatactg cgaagaagcc tagcaagaag attattacgc 180
 cagcttaaaa acatgggacc tcgtgatgtg ggtacggtgc caccatgaa ataaaaacct 240
 agtgtgtggt ttgaaacct aatttttctt tttctttttt gcaccatgag ag 292

<210> 240
 <211> 291
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(291)
 <223> unsure at all n locations

<400> 240
 ggaaaatggc tccgcttctc gctgctgcc tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agnaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaat cccacaaagg gactggttcc 240
 cctctgactt caccttcggt gccgccactt cagcgtacca aattgaaggt g 291

<210> 241
 <211> 319
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(319)
 <223> unsure at all n locations

<400> 241
 ggatcaaatg tgcaaggcta cttcgcttgg tctctgcngg acaactttga atngttcgcc 60
 ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg cacgcgctac 120
 atgaaggagt ctgccaagtg gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag 180
 attcttacgc cagcttagaa atcggggggc tcatgatgtg ggtgcagcnc ataaaaaact 240
 ggtgtgtggt ttcgaaccgn natttctggt tttccgccac gagagttctg gaggcatact 300
 ctccagcacc gtgctaata 319

<210> 242
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 242
 cgcctacgcc agtcaagaag ttaacgggcc tgacgggaag cccattggtc ctcctatggg 60
 aatccatgg atctacatgt accctgaggg cttgaaggat ctccttatga tcatgaagaa 120
 caaatacggg aaccaccta tctacatcac ggagaacgga atcggggatg ttgataccaa 180
 ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca 240
 gcgccacatc gctactctta aggaatcaat agacttggga tcaaat 286

<210> 243

<211> 298
<212> DNA
<213> Zea mays

<400> 243

gtacggcggc ttcctagaaa acggcataga gccatatgta acaattttcc actgggatgt 60
acctcaagca ctagaagaga agtacggcgg ctctctagat aagagtcata agagcattgt 120
agaagattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagaa 180
ttggttgacc tttaatgagc cccagacatt tacttccttt tcctacggaa ctgggggtctt 240
tgccccaggt cgggtgtcac ctggactaga ctgtgcctac ccaactggga attcactc 298

<210> 244
<211> 326
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)... (326)
<223> unsure at all n locations

<400> 244

aattgaaggt gcttggaaatg aanatggaaa ngnggaaagc aactgggatc acttctgcc 60
caatcatccg gaaangatac tggacgggag caattcagac attggagcga ntctgtacca 120
tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcac ataggttctc 180
tatctcttgg gccagaata ctgccgaagg aaccaaagaa ggaggtatta acccgcatgg 240
catcaagtac tacagaaacc tcntcaactt gttgctggaa aacggcntan agccatntgt 300
aacanttttc cactgggatg tacctc 326

<210> 245
<211> 284
<212> DNA
<213> Zea mays

<400> 245

cccagacatt tacttcattt tcctatggaa ccgggggtctt tgccccagga cgatgtcac 60
cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 120
acaacattct tctagccac gctgaggctg ttgatcttta caacaagtat tacaagggcg 180
agaacggccg cataggtctt gcatttgatg taatgggtcg tgtgccatac ggaacatcat 240

ttctagatga acaggccaaa gaaagggtcca tggacattaa ccta 284

<210> 246
<211> 295
<212> DNA
<213> Zea mays

<400> 246

gaaaggggga aagcaactgg gatcacttct gccacaatca tccggaaagg atactggacg 60
ggagcaattc agacattgga gcgaattcgt accatatgta caaaacggac gtcagattgc 120
tcaaggaaat gggcatggac gcatataggt tctctatctc ttggcccaga atactgccga 180
agggaaccaa agaaggaggt attaaccggg atggcatcaa gtactacaga aacctcatca 240
acttggtgct ggaaaacggc atagagccat atgtaacaat tttccatggg atgta 295

<210> 247
<211> 294
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(294)
<223> unsure at all n locations

<400> 247

caacttggtg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggtt cctagataan agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgcnt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctctttgc 240
cccaggtcgg tgctcactgg actagactgt gcctacccaa ctgggaattc actc 294

<210> 248
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 248

gaattgggtg acctttaatg agccccagac atttacttcc ttttctacg gaactggggt 60

ctttgccccca ggtcgggtgct cacctggact agactgtgcc tacccaactg ggaattcact 120
 cgtcgcagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 180
 ttacaacaag cattacaagc ggcgcgacac ncgcataagg cttgcgtttg acgtaatggg 240
 tcgtgtgcca tacggaacat cgtttctgga taaacangcc gaag 284

<210> 249
 <211> 284
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 249

ctttacaaca agcattacaa ggcgcgacgac acccgcatag ggcttncgtt tgacgtaatg 60
 ggtcgtgtgc catacggaaac atcgtttctg gataaacagg ccgaagaaag gtccctgggac 120
 atcaacctag gatggttctt agagccagtg gttcgtgggtg actacccctt ctccatgaga 180
 tcattggcta gggaacgact acccttcttc aaggacgagc agaaggagaa gtcgcgccgt 240
 tcctataaca tgttggggtt aaactactac acctcacggt tctc 284

<210> 250
 <211> 304
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(304)
 <223> unsure at all n locations

<400> 250

agaagattac acatactttg ctaagggtgtg ctttgataac ttcggcgaca aggtgaagaa 60
 ttgggtgacc tttaatgagc ccagacatt tacttctttt tctacggaa ctgggggtctt 120
 tgccccaggt cgggtgtcac ctggactaga ctgtgcctac ccaactggga attcactcgt 180
 cgagccttac actgctggcc ataacattct cctagcccan gctgaggctg ttgatcttta 240
 caaccnngca ttacangcgc gacgacacc gcatagggct tgcgntttga cgtaatgggt 300
 ngtg 304

<210> 251
<211> 287
<212> DNA
<213> Zea mays

<400> 251

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgtg 240
agcccctcgg aaatcccaca aagggatggt tcccctctga cttcact 287

<210> 252
<211> 291
<212> DNA
<213> Zea mays

<400> 252

aatggctcca cttctcgccg cagccatgaa ccacgctacc catccagtcc ttagaagcca 60
tctaggaccc aacaatgaga gtttctcacg acaccaccta tcttcttcac cacaagcag 120
taagcgaagg tttaacctta gctttacgcc acgatctgca agggtaggca atgaaaatgg 180
agtccaattg ttgagccctt cggaaatccc tcgaaggacgac tggttcccct ctgacttcat 240
ctttggtgcc gccacttcag cgtaccaaat tgaagggtgca tggaacgaag a 291

<210> 253
<211> 285
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 253

gngctacatg aaggagtctg ccaagtgggt ganacagttc aacgccgcga agaagcccag 60
caagaagatt cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata 120
aaaaactggt gtgtggtttc gaaccgaaaa ttttctgttt ttttccgcca cgagangttc 180
tggaggcata ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt 240

gtcatgcatg caatanttaa agtgatgggt ttccctgttt caaaa 285

<210> 254
<211> 278
<212> DNA
<213> Zea mays

<400> 254

gccatatgta acaattttcc actgggatgt acctcaagca ctagaagaga agtacggcgg 60
cttcctagat aagagtcata agagcattgt agaagattac acctacttcg ctaagggtgtg 120
ctttgataac ttcggcgaca aggtgaagaa ttggttgacc tttaatgagc cccagacatt 180
tacttccttt tcctacggaa ctgggggtctt tgccccaggg cggtgctcac ctggactaga 240
ctgtgcctac ccaactggga attcactcgt cgagcett 278

<210> 255
<211> 282
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(282)
<223> unsure at all n locations

<400> 255

cggcgacaag gtgaagaatt ggttgacctt taatgagccc cagacattta cttccttttc 60
ctacggaact ggggtctttg ccccaggctg gtgctnacct ggactagact gtggctaccc 120
aactgggaat tcactcgtcg agccttacac tgctggccat aacattctcc tagcccacgc 180
tgaggctgtt gatctttaca acaagcatta caagcgcgac gacaccgca tagggcttgc 240
gtttgacgta atgggtcgtg tgccatacng aacatcgttt ct 282

<210> 256
<211> 288
<212> DNA
<213> Zea mays

<400> 256

caaaactcta gctagctagc agggggggaa atggctccac ttctcgccgc agccatgaac 60
cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
caccacatat cttcttcacc gcaaagcagt aagcgaagg ttaaccttag ctttacgcca 180

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cgatctgcaa gagtaggcaa tcaaaatgga gtccaattgt tgagcccttc ggaaatccct 240
cgaagggact gggtcccttc cgattcatct ttggtgccgc cacttcag 288

<210> 257
<211> 277
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(277)
<223> unsure at all n locations

<400> 257

gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctt acggaactgg 60
gggtcttgcc ccagggtcgg gctcacctgg actagactgt gcctacccaa ctgggaattc 120
actcgtcgag ccttacactg ctggccataa cattctccta gcccacgctg aggctgttga 180
tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg ttgacgtaat 240
gggtcgtgtg ccatacggaa catcgtttct ggncaaa 277

<210> 258
<211> 274
<212> DNA
<213> Zea mays

<400> 258

gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgtgct gccatgaacc 60
acgctgcagc ccattctggc cttaggagcc acctagtagg acccaacaat gagagtttct 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agccctcgg 240
aaatccaca aagggactgg ttccctctg actt 274

<210> 259
<211> 274
<212> DNA
<213> Zea mays

<400> 259

cttataccca gaaggcctaa aggatattct tatgatcatg aagaacaaat atggaaacct 60
acctatctac atcactgaga acggaatcgg ggatgttgat acaaaggaga aacctctacc 120

catggaggct gccttaaag actacaaaag gctagattac atccagcgcc acatctcaac 180
tctcaaggag tcaatagact tgggagcaaa tgtgcatggc tacttcgctt ggtctctgct 240
ggataacttt gaatggtacg ccggctacac cgaa 274

<210> 260
<211> 293
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(293)
<223> unsure at all n locations

<400> 260

cgggacgtgg ncnanaagct ctagttctag ctagctagca aaggggggga aaatggctcc 60
gcttctcgct gcagcnatga accacgctgc agcccatcct ggcccttagga gccacctagt 120
aggacccaac aatgagagtt tctcacggca ccacctgccg tcttcttctc cacagagcag 180
caagcgaagg tgtaacctta gctttactac acgatctgca agagtaggca gccaaaatgg 240
agtccaaatg ttgagcccct cggaatccc acaaaggac tggttcccct ctg 293

<210> 261
<211> 279
<212> DNA
<213> Zea mays

<400> 261

cttcgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 60
tgagcccag acatttactt ccttttccta cggaactggg gtctttgccc cagggcggtg 120
ctcacctgga ctagactgtg cctaccaaac tgggaattca ctcgtcgagc cttacactgc 180
tgccataac attctcctag ccacgctga ggctgttgat cttacaaca agcattacaa 240
gcgcgacgac acccgcatag ggcttgcggt tgacgtaat 279

<210> 262
<211> 274
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

<400> 262
acggaactgg ggtctttgcc ccaggctcgg gctcacctgg actagactgt gcctacccaa 60
ctgggaattc actcgtcgag ccttacantg ctggccataa cattctccta gccacgctg 120
aggctgttga tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg 180
ttgangtaat gggcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 240
ggtcctggga catcaaccta ggatggttct taga 274

<210> 263
<211> 276
<212> DNA
<213> Zea mays
<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 263
ggcatggacg catatagggt ctctatctct tggcctagaa tactgcctan nggaacggtc 60
gaaggaggta ttaaccagga tggcatcgat tactacaaaa ggctcatcaa cttgttgcta 120
gagaatggca tagagccata tgtaacaatt ttccactggg atgtccctca agcactagaa 180
gagaagtacg gcggtattctt agataagact cataagagga ttgtaaatga ttacaaaaaac 240
ttcgctaagg tgtgcttcga caactttggt gacaag 276

<210> 264
<211> 276
<212> DNA
<213> Zea mays
<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 264
atgagcccca gacatttact tccttttctt acggaactgg ggtctttgcc ccaggctcgg 60
gctcacctgg actagactgt gcctacccaa ctnggaattc actcgtcgag ccttacactg 120
ctggccataa cattctccta gccacgctg aggctgttga tctttacaac aagcattaca 180
agcgcgacga caccgcata nggcttgctg ttgacgtaat gggcgtgtg ccatacggaa 240

catcgtttct ggataaacag gccgaagaaa ggtcct 276

<210> 265

<211> 274

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(274)

<223> unsure at all n locations

<400> 265

ggtttctcaa aaacatcgat atctcaccaa actactcacc tgtgctcaac antgacgacg 60

cctacgccag tcaagaagtt aacggggcctg acgggaagcc cattggctct cctatgggaa 120

atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgac atgaagaaca 180

aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatgtt gataccaagg 240

agacacctct acccatggag gatgccttaa atga 274

<210> 266

<211> 280

<212> DNA

<213> Zea mays

<400> 266

gaactggggt ctttgcccca ggtcggtgct cacctggact agactgtgcc taccgaactg 60

ggaattcact tcgtcgagcc ttacactgct ggccataaca ttctcctagc ccacgctgag 120

gctgttgatc tttaacaaca gcattacaag cgcgacgaca cccgcatagg gcttgcggtt 180

gacgtaatgg gtcgtgtgcc atacggaaca tcgtttcttg ataaacaggc cgaagaaagg 240

tcctgggaca tcaacctagg atggttctta gagccagtgg 280

<210> 267

<211> 279

<212> DNA

<213> Zea mays

<400> 267

cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaagg 60

gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctt acggaactgg 120

ggtctttgcc ccaggtcggt gctcacctgg actagactgt gcctacccaa ctgggaattc 180

actcgtcgag ccttacactg ctggccataa catctcctag cccacgctga ggctgttgat 240
ctttacaaca agcattacaa gcgcgacgac acccgcata 279

<210> 268
<211> 271
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(271)
<223> unsure at all n locations

<400> 268

gntaacgggc ctgacgggaa gccattggt cctcctatgg gaaatccatg gatctacatg 60
taccctgagg gcttgaagga tctccttatg atcatgaaga acaaatacgg aaaccacct 120
atctacatca cggagaacgg aatcggggat gttgatacca aggagacacc tctacccatg 180
gaggatgcct taaatgacta caaaaggcta gattacatcc agcgccacat cgctactctt 240
aaggaatcaa tagacttggg atcaaatgtg c 271

<210> 269
<211> 291
<212> DNA
<213> Zea mays

<400> 269

ttcggtttca cactttttca gagaagatta cacatacttt gctaagggtg gctttgataa 60
cttcggcgac aagggtgaaga attggttgac ctttaatgag cccagacat ttacttctt 120
ttcctacgga actgggggtct ttgccccagg tcggtgctca cctggactag actgtgccta 180
cccaactggg aattcactcg tcgagcctta cactgctggc cataacattc tcctagecca 240
cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc g 291

<210> 270
<211> 278
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations

<400> 270

09076054.101501

gcagctcaaa gctctagttc tagctagcta gcaaangggg ggaaaatggc tccgcttctc 60
gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcagc gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
aggtgtaacc ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
atgttgagcc cctcggaat cccacaaagg gactgggt 278

<210> 271
<211> 312
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(312)
<223> unsure at all n locations

<400> 271
attcgtagca tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcat 60
aggttctcta tctcttggcc cagaatactg ccgaaggaac caaagaagga ggtattaacc 120
cgnatggcat caagtactac agaaacctca tcaacttggt gctagaaaac ggcatagagc 180
catatgtaac aattttccac tgggatgtac ctcaagcact agaagagaag tacggcggct 240
tcctagataa gagtcataag agcattgtag aagattacac atactttgct aaggtgtgct 300
ttgataactt cg 312

<210> 272
<211> 276
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 272
gagccccaga catttacttc cttttcctac ggaactgggg tctttgcccc aggtcggtgc 60
tcacctggac tagactgtgc ctacccaact gggaattcac tcgtcgagcc ttactgtct 120
ggccataaca ttctcctagc ccacgtgag gctgttgatc tttacaaca gcattacaag 180
cgcgacgaca cccgcatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca 240

09976054.101501

tcgttctgga taaacaggcc gaagaaangt cctggg 276

<210> 273
<211> 267
<212> DNA
<213> Zea mays

<400> 273

ggccataaca ttctcctagc ccacgctgag gctgttgatc tttacaacaa gcattacaag 60
cgcgacgaca cccgcatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca 120
tcgtttctgg ataaacaggc cgaagaaagg tcctgggaca tcaacctagg atggttctta 180
gagccagtgg ttctgttgtga ctacccttc tccatgagat cattggctag ggaacgacta 240
cccttcttca aggacgagca gaaggag 267

<210> 274
<211> 276
<212> DNA
<213> Zea mays

<400> 274

gccatctagg acccaacaat gagagtttct cacgacacca cctatcttct tcaccacaaa 60
gcagtaagcg aaggtttaac cttagcttta cgccacgatc tgcaagggtta ggcaatgaaa 120
atggagtcca attgttgagc ccctcggaag tccctcgaag ggactgggtc ccctctgact 180
tcctcttttg tgccgccact tcagcgtacc aaattgaagg tgcattggaac gaagatggaa 240
aggggggaaag caattgggat cacttctgcc acaatt 276

<210> 275
<211> 267
<212> DNA
<213> Zea mays

<400> 275

caaaaacatc gacatctcac caaactactc acctgtgctc aacactgacg acgcctacgc 60
cagtcaagaa gttaacgggc ctgacgggaa gccattggg cctcctatgg gaaatccatg 120
gatctacatg taccttgagg gcttgaagga tctccttatg ataatgaaga acaaatacgg 180
aaaccacct atctacatca ccgagaacgg aatcggggat gttgatacca aagagacacc 240
tctacccatg gaggctgcct taaatga 267

<210> 276
 <211> 271
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

 <400> 276

 tgctacatga aggagtctgc caagtgggtg anacagttca acgccgcgaa gaagcccagc 60
 aagaagattc ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa 120
 aaaactggtg tgtggtttcg aaccgaaaat tttctgtttt tttccgccac gagangttct 180
 ggaggcatac tctccagcac cgtggctaata aacgcattgt tccaattcag tctggccttg 240
 tcatgcatgc aataaataaa gtgatggggtt t 271

<210> 277
 <211> 285
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

 <400> 277

 cggnacntgg ngnaaggngag tctgccaaagt ggttgaaaca gttcaacgcc gcgaagaagc 60
 ccagcaagaa gattcttacg ccagcttaga aatcgggggc ctcatgatgt ggggtgcagcc 120
 cataaaaaac tgggtgtgtg tttcgaaccg aaaattttct gtttttttcc gccacgagag 180
 gttctggagg catactctcc agcacctgag ctaataacgc attgttccaa ttcagtctgg 240
 ccttgtcatg catgcaataa ataaagtgat ggggtttccct gtttc 285

<210> 278
 <211> 268
 <212> DNA
 <213> Zea mays

 <400> 278

 cggaaccca cctatctaca tcacggagaa cggaatcggg gatgttgata ccaaggagac 60
 acctctacc atggaggatg ccttaaata ctacaaaagg ctagattaca tccagcgcca 120

09976054-101501

catcgctact cttaaggaat caatagactt gggatcaaat gtgcaaggct acttcgcttg 180
gtctctgctg gacaactttg aatggttcgc cggcttcacc gaacgttatg gcattgtcta 240
cgtcgaccgc aacaataact gcacgcgc 268

<210> 279
<211> 318
<212> DNA
<213> Zea mays

<400> 279
gcagctcaaa gctctagttc tagctagcta gcaaaggggg ggaaaatggc tccgcttctc 60
gctgctgcc tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcacg gcaccacctg cgtcttctt ctccacagag cagcaagcga 180
aggtgtaact tagctttact acacgatctg caagagtagg cagccaaaat ggagtccaaa 240
tgttgagccc ctcgaaatc ccacaaaggg actggttccc tctgacttca cttcggtgcc 300
ggcaacttca gcgtacca 318

<210> 280
<211> 264
<212> DNA
<213> Zea mays

<400> 280
ctctgctgga taactttgaa tggtagccg gctacaccga acgttatggc attgtctacg 60
tcgaccgcaa aaataactac acgcgctaca tgaaggagtc agccaagtgg ttaaaagagt 120
tcaatactgc gaagaagcct agcaagaaga ttattacgcc agcttaaaaa catgggacct 180
cgtgatgtgg gtacggtgcc acccatgaaa taaaaaccta gtgtgtgggt tgaaacctaa 240
atctttcttt ttcttttttg cacc 264

<210> 281
<211> 264
<212> DNA
<213> Zea mays

<400> 281
caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccacccctggc cttaggagcc acctagtagg acccaacaat 120
gagagtctct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180

aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
agcccctcgg aaatcccaca aagg 264

<210> 282
<211> 265
<212> DNA
<213> Zea mays

<400> 282

gggatgttga taccaaggag acacctctac ccatggagga tgccttaaata gactacaaaa 60
ggctagatta catccagcgc cacatcgcta ctcttaagga atcaatagac ttgggatcaa 120
atgtgcaagg ctacttcgct tgggtctctgc tggacaactt tgaatgggtc gccggcttca 180
ccgaacgtta tggcattgtc tacgtcgacc gcaacaataa ctgcacgcgc tacatgaagg 240
agtctgccaa gtggttgaaa cagtt 265

<210> 283
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 283

tttgccecan gtcgggtgctc acctggacta gactgtgnct acccaactgg gaattcactc 60
gtccgagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 120
ttacaacaag cattacaagc gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 180
tcgtgtgcca tacggaacat cgtttctgga taaacaggcc gaagaaangt ctgggacatc 240
aacctaggat ggttcttaga gccagtggtt cgtggtgact ancc 284

<210> 284
<211> 270
<212> DNA
<213> Zea mays

<400> 284

ataaactact acacctcaat attctccaaa catatcgaca tctcaccaaa atactcgctt 60
gttctcaaca ctgacgacgc ctacgctagt caagaaacgt atgggcctga cgggaaaccc 120

attggtcctc ctatgggaaa tccgtggatc tacttatacc cagaaggcct aaaggatata 180
 cttatgatca tgaagaacaa atatggaaac ccacctatct acatcactga gaacggatcg 240
 gggatgttga taaaaaggag aaacctctac 270

<210> 285
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 285

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aagggtgaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
 aatgttgagc ccctcggaaa tcccacaaa 269

<210> 286
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 286

tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc caggtcggta 60
 ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc cttacactgc 120
 tggccataac atttccttag cccacgctga ggctgttgat ctttacaaca agcattacaa 180
 gcgcgacgac acccgcatag ggcttgcggt tgacgtaatg ggctgtgtgc catacggaac 240
 atcgtttctg gataaacagg ccga 264

<210> 287
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 287

gttgggggta aactactaca cctcacgggt ctccaaaaac atcgatatct caccaaacta 60
 ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg ggctgacgg 120
 gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 180

ggatctcctt atgatcatga agaacaaata cggaaccca cctatctaca tcacggagaa 240
cggaatcggg gatgttgata cca 263

<210> 288
<211> 274
<212> DNA
<213> Zea mays

<400> 288

atattgtgcag gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 60
ttaaatagact ataaaaggct agattacatc cagcgccaca tcgctactct taaggaatca 120
atagacttgg gatcaaagt gcaaggctac ttcgcttggc ctctgctgga caactttgaa 180
tggttcgccg gcttcaccga acgttatggc attgtctacg tcgaccgcaa caataactgc 240
acgcgctaca tgaaggagtc tgccaagtgg ttga 274

<210> 289
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 289

aaagctctag ttctagctag cnagcaaagg gggggaaaat ggctccgctt ctgcngctg 60
ccatgaacca cgctgcagcc cancctggcc ttaggagcca cctagtagga ccccaacaan 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgn 180
aaccnnagcn ttactacacg atcngcaaga gtaggcagcc aaaatggagt tcaaagtgtg 240
agcccctcgg aaattccaca aagggactgg ttcccctctg acttnacctt cggtggnngg 299

<210> 290
<211> 262
<212> DNA
<213> Zea mays

<400> 290

ctctagctag ctagcagggg gggaaatggc tccacttctc gccgcagcca tgaaccacgc 60
tgcccatcca gtccttagaa gccatctagg acccaacaat gagagtttct cacgacacca 120

09976054-101504

cctatcttct tcaccgcaaa gcagtaagcg aaggtttaac cttagcttta cgccacgatc 180
 tgcaagagta ggcaatcaaa atggagtcca attgttgagc ccttcggaaa tccctcgaag 240
 ggactgggtc cctccgact tc 262

<210> 291
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 291

ggaaaatggc tccgcttctc gctgctgcc tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaaat cccacaaagg gactgggttc 240
 cctctgactt caccttcggt g 261

<210> 292
 <211> 424
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(424)
 <223> unsure at all n locations

<400> 292

acagctctag ttctanctan ctancaangg gngggaaaat ggctccgctt ctcgctgctg 60
 ccatgaacca cncctgcancc catcctggcc ttaggagcca cctagtacga cccaacattg 120
 agagtttctc acggcaccac ctgccgtctt cttctccaca gagcagcatc gcnaaggtgt 180
 aaccttagcn ttactacacg atctgcaaga gtaggcagcc aaantggant cnaantgttg 240
 agcccnncng aaatncaca aagggaacngg tncctctctg acttcacctt cgggtgcncgc 300
 cncntcagcg tancangnt caatgtgctt ggaanganga tggaancggg gaaancgnct 360
 gggatnantt cngcganagt catccgaaa ngatatggac tggancactt cagacattgg 420
 atca 424

<210> 293
 <211> 306
 <212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(306)

<223> unsure at all n locations

<400> 293

gctagcnagc naaggggggg anaatngctc cgcttctcgc tgetgccatg anccacgctg 60

cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120

accacctgcc gtcttcttct ccacagagca gcaagcnaag gtgtaacctt agctttacta 180

cacgatctgc aagantaggc agccaaaatg gagtcctaat gttgagcncc tcggaaatcc 240

cacaaagggg ctggttcnct tctgacttca anttggtggn ggcaattnag gtaacaaatt 300

gaaggt 306

099765474501

<210> 294

<211> 277

<212> DNA

<213> Zea mays

<400> 294

gcagctcaaa actctagcta gctaccaggg gggaaaatgg ctccacttct cgccgcagcc 60

atgaaccacg ctacccatcc agtccttaga agccatctag gaccaacaa tgagagtttc 120

tcacgacacc acctatcttc ttcaccacaa agcagtaagc gaaggtttaa ccttagcttt 180

acgccacgat ctgcaagggg aggcaatgaa aatggagtcc aattgttgag cccctcggaa 240

atccctcgaa gggactgggt cccctctgac ttcactt 277

<210> 295

<211> 260

<212> DNA

<213> Zea mays

<400> 295

cgtcaataga cttggggagca aatgtgcatg gctacttcgc ttggtctctg ctggataact 60

ttgaatggta cgccggctac accgaacgtt atggcattgt ctacgtcgac cgaaaaata 120

actacacgcy ctacatgaag gagtcagcca agtggttaaa agagttcaat actgcgaaga 180

agcctagcaa gaagattatt acgccagctt aaaaacatgg gacctcgtga tgtgggtacg 240

gtgccacca tgaaataaat 260

<210> 296
 <211> 258
 <212> DNA
 <213> Zea mays

<400> 296

gccaagtggg tgaaacagtt caacgccgag aagaagccca gcaagaagat tcttacgcca 60
 gcttagaaat cgggggcctc atgatgtggg tgcagcccat aaaaaactgg tgtgtgggtt 120
 cgaaccgaaa attttctgtt tttttccgcc acgagagggt ctggaggcat actctccagc 180
 accgtggcta ataacgcatt gttccaattc agtctggcct tgtcatgcat gcaataaata 240
 aagtgatggg tttccctg 258

<210> 297
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 297

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
 aaggaaatgg gcatggacgc atatagggtc tctatctctt ggcccagaat actgccgaag 120
 gaaccaaaga aggaggtatt aacccggatg gcatcaagta ctacagaaac ctcatcaact 180
 tgttgctaga aaacggcata gagccatatg taacaatttc cactgggatg tacctcaagc 240
 actagaagag aagtacggcg gcttcc 266

<210> 298
 <211> 270
 <212> DNA
 <213> Zea mays

<400> 298

tacaagcgcg acgacacccg catagggctt gcgtttgacg taatgggtcg tgtgccatac 60
 ggaacatccg tttctggata aacaggccga agaaagggtca tgggacatca acctaggatg 120
 gttcttagag ccagtgggtc gtggtgacta ccccttctcc atgagatcat tggttaggga 180
 acgactaccc ttcttcaagg acgagcagaa ggagaagctc gccggttcct ataacatgtt 240
 ggggttaaac tactacacct cacggttctc 270

<210> 299
 <211> 287

<212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

 <400> 299

 attacaccta cttcgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt 60
 tgaccttttaa tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc 120
 cagggcggtg ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc 180
 cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca 240
 agcatacaag gcgacgacac ccgcatangg ctgcgttgac gtatggg 287

<210> 300
 <211> 252
 <212> DNA
 <213> Zea mays

 <400> 300

 cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga gaacggaatc 60
 ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa tgactacaaa 120
 aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca 180
 aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatggtt cgccggcttc 240
 accgaacggt at 252

<210> 301
 <211> 256
 <212> DNA
 <213> Zea mays

 <400> 301

 cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg agcagaagga 60
 gaagctogcc ggttcctata acatgttggg gttaaaactac tacacctcac ggttctccaa 120
 aaacatcgac atctcaccaa actactcacc tgtgctcaac actgacgacg cctacgccag 180
 tcaagaagtt aacgggcctg acaggaagcc cattggtcct cctatgggaa atccatggat 240
 ctacatgtac cctgag 256

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<210> 302
 <211> 255
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

 <400> 302

 tcaacttggt gctagaaaac ggcatagagc catatgtaac aatttnccac tgggatgtac 60
 ctcaagcact agaagagaag tacggcggct tcctagataa gagtcataag agcattgtag 120
 aagattacac atactttgct aaggtgtgct ttgataactt cggcgacaag gtgaagaatt 180
 gggtgacctt taatgagccc cagacattta cttccttttc ctacggaact ggggtctttg 240
 cccaggtcg gtgct 255

<210> 303
 <211> 264
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

 <400> 303

 cggacgtg tgnactacaa aaggctagat tacatccagc gccacatcgc tactcttaag 60
 gaancaatag acttgggatac aaatgtgcaa ggctacttcg cttggtctct gctggacaac 120
 tttgaatggt tcgccggctt caccgaacgt tatggcattg tctacgtcga ccgcaacaat 180
 aactgcacgc gctacatgaa ggagtctgcc aagtgggtga aacagttcaa cggcggaag 240
 aagcccagca agaagattct tacg 264

<210> 304
 <211> 252
 <212> DNA
 <213> Zea mays

 <400> 304

 attacacata ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt 60
 tgacctttaa tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc 120

09976054-101501

caggctcgggtg ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc 180
 cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca 240
 agcattacaa gg 252

<210> 305
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 305

ctcnncgagc cttacaengc tggccataan attctcctag cccangnnga ngngttgat 60
 ctttacaaca agcatnanaa ncgcgacgac acnecnatag ggcttgcggt tgacgtaatg 120
 ggtcgtgtgc catanggaac atcgtttctg gataaacagg cngaagaaag gtcttgggac 180
 atcaacctag gatggttctt agagncagtg gttcgtggtg actanccctt ctccatgaga 240
 tcattggcta gggaacgact acccttcttc aaggacgag 279

<210> 306
 <211> 251
 <212> DNA
 <213> Zea mays

<400> 306

caaagaagga ggtattaacc cggatggcat caagtactac agaaacctca tcaacttggt 60
 gctagaaaac ggcatagagc catatgtaac aattttccac tgggatgtac ctcaagcact 120
 agaagagaag tacggcgggt tcctagataa gagtcataag agcattgtag aagattacac 180
 atactttgct aaggtgtgct ttgataactt cggcgacaag gtgaagaatt gggtgacctt 240
 taatgagccc c 251

<210> 307
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 307

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agttttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aagggtgaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
 aatggtgagc ccct 254

<210> 308
 <211> 275
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations
 <400> 308

gcgctacatg aaggagtctg ccaagtgggt gaancagttc aacgccgcga agangcccag 60
 caagaagatt cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccatn 120
 aaaaactgggt gtgtgggttc gaaccgaaaa ttttctgttt ttttccgcca cgagaggttc 180
 tggaggcata ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt 240
 gtcatgcatg cataantnga tgatgggttc cctgt 275

<210> 309
 <211> 248
 <212> DNA
 <213> Zea mays
 <400> 309

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgccat 60
 gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggaccca acaatgagag 120
 tttctcacgg caccacctgc cgttttcttc tccacagagc agcaagcgaa ggtgtaacct 180
 tagctttact acacgatctg caagagtagg cagccaaaat ggagtccaaa tgttgagccc 240
 ctcgga 248

<210> 310
 <211> 261
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(261)
 <223> unsure at all n locations
 <400> 310
 cggacgctgg cggcgacaa ggtgaagaat tggttgacct ttaatgagcc ccagacattt 60
 acntcctttt cctacggaac tggggtcttt gcccaggtc ggtgctcacc tggactagac 120
 tgtgcctacc caactgggaa ttcactcgtc gagccttaca ctgctggcca taacattctc 180
 ctagcccacg ctgaggctgt tgatctttac aacaagcatt acaagcgga cgacaccgc 240
 atagggcttg cgtttgacgt a 261

<210> 311
 <211> 300
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(300)
 <223> unsure at all n locations

<400> 311
 aacaagcatt acaagcgga cgacaccgcg catagggctt gcgtttgacc gtaatgggtc 60
 gtgtgccata cggaacatcg tttctggata aacaggccga agaaaggctc tgggacatca 120
 acctaggatg gttcttagag ccagtgggtc gtggtgacta cccctctcca tgagatcatt 180
 ggctagggaa cgactaccct cttcaaggac gagcanaagg agaagctcgc cggttcttat 240
 aacagttggg gttaactata cacctcaggt tctccaaaaa catcgatatc tcaccaacta 300

<210> 312
 <211> 332
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(332)
 <223> unsure at all n locations

<400> 312
 cttgcatttg acgtaatggg tcgtgtccca tacganaagt cggcgtttac ggatcaacag 60
 gccgaacaaa ggtcctggga cattaacctt ggatggttct tggagccggt tggtcgtggt 120
 gactaatccn ttctccatga gatcattggc aagggaacga ctacccttct tcaactgacaa 180

agagcaagag aagctagtgg gttcctatga catggtgggg ttaaactatt atacctcaag 240
gttctctaaa aacatcgata tctcaccaaa ctactcgcca gtgctcaaca ctgacgacgc 300
atatgccagt caagaaacga atgggcctga cg 332

<210> 313
<211> 258
<212> DNA
<213> Zea mays

<400> 313

gttgcgctgt gtgttatattt ttatgaaata aaaatctaga tggttgtgtt tatgatagat 60
gttactatac ggtcgcactt gccgtcaatt caatttttat ttgtgcagga atcggggatg 120
ttgataccaa ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag 180
attacatcca gcgccacatc gctactctta aggaatcaat agacttggga tcaaatgtgc 240
aaggctactt cgcttggt 258

<210> 314
<211> 244
<212> DNA
<213> Zea mays

<400> 314

caacttggtg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggtt cctagataag agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctctttgc 240
ccca 244

<210> 315
<211> 259
<212> DNA
<213> Zea mays

<400> 315

tcgagcttta cactgctggc cataacattc toctagccca cgctgaggct gttgatcttt 60
acaacaagca ttaacaagcg gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 120
tcgtgtgcca tacggaacat cgtttctgga taaacaggcc gaagaaaggc catgggacat 180
caacctagga tggttcttag agccagtggc tcgtggtgac tacccttct ccatgagatc 240

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attggctagg gaacgacta 259

<210> 316
<211> 239
<212> DNA
<213> Zea mays

<400> 316

gtgtaacctt agctttacta cacgatctgc aagagtaggc agccaaaatg gagtccaaat 60

gttgagcccc tcggaaatcc cacaaggga ctgggtcccc tctgacttca ccttcggtgc 120

cgccacttca gcgtacaaaa ttgaagggtgc ttggaatgaa gatggaaagg gggaaagcaa 180

ctgggatcac ttctgccaca atcatccgga aaggatactg gacgggagca attcagaca 239

<210> 317
<211> 253
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(253)
<223> unsure at all n locations

<400> 317

ggttaaacta cnacacctca cggttctcca nnancatcga tntctacca aacnactcac 60

ctgtgctcaa cactgacgac gcctacgcca gtcaagaagt taacgggcct gacgggaagc 120

centtggtcc tcctatggga aatccatgga tctacatgta ccctgagggc ttgaaggatc 180

tccttatgat catgaagaac aaatacggaa acccacctat ctacatcacg gngancggaa 240

tcggggntgt tga 253

<210> 318
<211> 241
<212> DNA
<213> Zea mays

<400> 318

caaattgaag gtgcttgga tgaagatgga aagggggaaa gcaactggga tcacttctgc 60

cacaatcatc cgaaaggat actggacggg agcaattcag acattggagc gaattcgtac 120

catatgtaca aaacggacgt cagattgctc aaggaaatgg gcatggacgc atataggttc 180

tctatctctt ggcccagaat actgccgaag gaaccaaaga aggaggtatt aaccgggatg 240

g 241

<210> 319
 <211> 242
 <212> DNA
 <213> Zea mays

<400> 319

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
 aa 242

<210> 320
 <211> 236
 <212> DNA
 <213> Zea mays

<400> 320

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaatt 236

<210> 321
 <211> 241
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(241)
 <223> unsure at all n locations

<400> 321

cttnaatgac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
 aatagacttg ggatcaaatg tgcaaggcta cttcgcttgg actctgctgg acaactttga 120
 atggattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
 cacgcgctac atgaaggagt ctgccaagtg gttgaaagag ttcaacaccg cgaaaaagcc 240

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c

241

<210> 322
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 322

gccgcnggga accaccagaa ggaggtatta acccggatgg catcaagtac tacagaaacc 60
 tcatcaactt gttgctagaa aacggcatag agccatatgt aacaattttc cactgggatg 120
 tacctcaagc actagaagag aagtacggcg gcttcctaga taagagtcac aagagcattg 180
 tagaaattac acatactttg ctaagggtgtg ctttgataac ttcggcgaca aggtgaagat 240
 tggttgacct ttaatgagcc ccagaacttta ctctcttttc ctacggaatg gggctctttgc 300
 cccagtcggt gctcactgga tagatgtgcc taccactgg g 341

<210> 323
 <211> 269
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 323

caaagctcta gttctagcta gctagcaaag ggggggaaaaa tggctcngnt tctncgctgc 60
 tgccatgaac cacgctgcag cccatcctgg ccttaggagc nacctagtag gncccaacaa 120
 tgagagtttc tcacggcacc acctgcngtc ttcttctcca cagagcagca agcnaagggtg 180
 taaccttcgc ttactacac natctgcaag agtaggcagc caaaatggag tcnaaatntt 240
 ganccctcg gaaatccac aaagggant 269

<210> 324
 <211> 316
 <212> DNA
 <213> Zea mays

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<220>
 <221> unsure
 <222> (1)...(316)
 <223> unsure at all n locations

<400> 324

gacatttacn tccttttccct acgggctggg gtctttgccc caggctcggg ctcacctgga 60
 ctagactgtg cctaccaaac tgngaattna ctgcgagc cttanactgc tggccataac 120
 atnctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa gcgcgacgac 180
 acncgcntag ggcttgcggt tnacgtnatg ggctcgtgtgc catacggnac atcgtttctg 240
 ganaacaggc cgnagaaagt cctgggacat caancnatna tggntctaga ccagtngtcg 300
 ggtgactacc cctctc 316

<210> 325
 <211> 277
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 325

caaagctcta gttctagcta nctagcaaan ngggggganaa tggctccgct tttcgtctgc 60
 gccatgaacc acgctgcagc ccctcctggc cttaggagcc ncctagtagg acccaacgat 120
 gagagntntc acggcaccan ctgccgtctt cttctccaca gagcagcaan cgaagggtga 180
 acnttagctt tactacacga tntgcaagag taggcagcca aaatggagtc cnnatgttga 240
 gccctcggga aatcccgcga agggantggg tcccctc 277

<210> 326
 <211> 247
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 326

ancagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtaggacc 120
 caacaatgag agttttctac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
 atgttga 247

<210> 327
 <211> 252
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 327

agacattgga gcgaattcgt accatatgta caaaacggat gtcagattgc tgaaggaaat 60
 gggcatggac gcatataggt tctctatctc ttggcctaga atactgccta nnggaacggc 120
 cgaaaggggt attaaccagg atggcatcna ttactacana aggctcatcn acttgntgct 180
 agaggatggc ntagangcat atgnaacnat tttccactgg gatgtccctc aagcactaga 240
 agagaagtac gg 252

<210> 328
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 328

ctgggaattc actcgtcgag ccttacctg ctggccataa cattctccta gccacgctg 60
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg 120
 ttgacgtaat gggctcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 180
 ggtcatggga catcaacctg ggatggttct tagagccagt ggttcgtggt g 231

<210> 329
 <211> 237
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(237)
 <223> unsure at all n locations

<400> 329
 caaagctcta gttctagcta gctagcnaaa ggggggaaaa tggctccgct tctcgtgct 60
 gccatgaacc acgtgcagc ccacccctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg 180
 aaccttagct ttactacacg atctgcanga gtaggcagcc aaaatggagt ccaantg 237

<210> 330
 <211> 264
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 330
 acnccttntc natgagatna ttggctaggg aacgactacc cttcttcaag gacgagcaga 60
 aggagaagct tcgccgggtc ctataaanatg ttgggggttaa actactacac ctcacgggtc 120
 tccaaaaaca tcgatatctc acnaaactan tcacctgtgc tcaaacactga ccaccgccnn 180
 cgccagtcaa gaagttaacg ggccctgangg gaagcccant ggtcctccta tgggaaatcc 240
 atggatctac atgtaccctg aggg 264

<210> 331
 <211> 228
 <212> DNA
 <213> Zea mays

<400> 331
 cacatacttt gctaagggtg gctttgataa cttcggcgac aaggtgaaga attgggtgac 60
 ctttaatgag cccagacat ttacttcctt ttctacgga actgggggtct ttgccccagg 120
 tcgggtgctca cctggactag actgtgccta cccaactggg aattcactcg tcgagcctta 180
 cactgctggc cataacattc tcctagccca cgctgagggt gttgatct 228

<210> 332
 <211> 233
 <212> DNA
 <213> Zea mays

<220>

<221> unsure
<222> (1)...(233)
<223> unsure at all n locations

<400> 332

aganagggtcc tgggacatca acctaggatg gttcttagag ccagtggtno gtggtgacta 60
acccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 120
ggagaagctc gccggttcct ataacatggt ggggttaaac tactacacct caccggttctc 180
caaaaacatc gatatctcac caaactactc acctgtgctc aacactgacg acg 233

<210> 333
<211> 235
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(235)
<223> unsure at all n locations

<400> 333

ctctacccat ggaggatgcc ttaaattgact acaaaaggct agattacatc cagcgccaca 60
tcgctactct taaggaatca atagacttgg gatcaaatgt gcaaggctac ttcgcttggc 120
ctctgctgga caactttgaa tgggttcgccg gcttcaccga acgttatggc attgtctacg 180
tcgaccgcaa caataactgc acgcgctaca tgaaggagtc tncnaagngg ttnaa 235

<210> 334
<211> 268
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(268)
<223> unsure at all n locations

<400> 334

aaaataactg ttgatcggga cgtcagattg ctcaaggaaa tgggcatgga cgcntatagg 60
ttctctatct cttggcccag aatactgccg aaggaaccaa agaaggaggt attaacccgg 120
atggcatcaa gtactacaga aacctcatca acttggttgc agaaaacggc atagagccat 180
atgtaacaat tttccactgg gatgtacctc angcactnga agagaagtac ggcggcttcc 240
tagatangag tcatggagca tgttnaag 268

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<210> 335
<211> 241
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(241)
<223> unsure at all n locations

<400> 335

ttcggtngcc gccacttcag cgtaccaa at tgaaggctgct tggaatgang atngaaaggg 60
ggaaagcaac tgggatcact tctgccacaa tcatccgga aggatactgg acgggagcaa 120
ttcagacatt ggagcgaatt cgtaccatat gtacaaaacg gacgtcagat tgetcaagga 180
aatgggcatg gacgcatata ggttctctan ctcttggccc agaatactgc cgaaggaacc 240
a 241

<210> 336
<211> 240
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(240)
<223> unsure at all n locations

<400> 336

ggacaacttt gaatggttcg ccggcttcac cgaacgttat ggcnttgtct acgtcgaccg 60
caacaataac tgcacgcgct acatgaagga gtctgccaaag tgggtgaaac agttcaacgc 120
cgcgaagaag cccagcaaga ngattcttnn gccagcttng aaatcggggg cctcatgatg 180
tgggtgcagc ccataaaaaa ctggtgtgtg gtttcgaann gaaaatttgc tgtttttncg 240

<210> 337
<211> 226
<212> DNA
<213> Zea mays

<400> 337

cgctactctt aaggaatcaa tagacttggg atcaaatgtg caaggctact tcgcttggtc 60
tctgctggac aactttgaat ggttcgccgg cttcaccgaa cgttatggca ttgtctacgt 120

cgaccgcaac aataactgca cgcgctacat gaaggagtct gccaaagtgg tgaaacagtt 180
caacgccgcg aagaagccca gcaagaagat tcttacgcca gcttag 226

<210> 338
<211> 227
<212> DNA
<213> Zea mays

<400> 338

cacccgcata gggcttgctg ttgacgtaat gggctcgtgtg ccatacggaa catcgtttct 60
ggataaacag gccgaagaaa ggtcctggga catcaacctt ggatgggttct tagagccagt 120
ggttcgtggg gactaccctt tctccatgag atcattggct agggaacgac tacccttctt 180
caaggacgag cagaaggaga agctcgccgg ttcctataac atgttgg 227

<210> 339
<211> 229
<212> DNA
<213> Zea mays

<400> 339

gtaccatatt tacaaaacgg acgtcagatt gctcaaggaa atgggcatgg acgcatatag 60
gttctctatc tcttgccca gaatactgcc gaaggaacca aagaaggagg tattaacctg 120
gatggcatca agtactacag aaacctcatc aacttggtgc tagaaaacgg catagagcca 180
tatgtaacaa ttttccactg ggatgtacct caagcactag aagagaagt 229

<210> 340
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 340

ggaaaatggc tccgcttctc gctgctgcc tgaaccacnc tgcagcccat cctggcctta 60
ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
ctccacagag cagacaagcg aagggtgaac ttagctttac tacacgatct gcaagagtag 180
gcagccaaaa tggagtccaa atgttgagcc cctcggaat cccacaaagg gatggttcta 240

tctgacttca ccttcggtgc cgccac 266

<210> 341
<211> 223
<212> DNA
<213> Zea mays

<400> 341

ccagacattt acttcctttt cctacggaac tggggtcttt gccccaggtc ggtgctcacc 60
tggactagac tgtgcctacc caactgggaa ttcactcgtc gagccttaca ctgctggcca 120
taacattctc ctagcccacg ctgaggctgt tgatctttac aacaagcatt acaagcgcca 180
cgacacccgc atagggttg cgtttgacgt aatgggtcgt gtg 223

<210> 342
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 342

gcccagcaag aagattctta cgccagctta gaaatcngcg gcctcatgat gtgggtgcag 60
cccataaaaa actggtgtgt ggtttogaac cgaaaatttt ctgttttttt cgcaccagag 120
aggttctgga ggcatanctt ccagcaccgt ggctaataac gcattgttcc aattcngtct 180
ggccttgta tgcattgcaat aaataaagtg atgggtttcc ctgtttcaaa nannannna 240
aagnganga ggagngcgn gg 262

<210> 343
<211> 224
<212> DNA
<213> Zea mays

<400> 343

acttcggcga caaggtgaag aattggttga cctttaatga gccccagaca ttacttcct 60
tttctacgg aactggggtc ttgccccag gtcggtgctc acctggacta gactgtgctt 120
accaactgg gaattcactc gtcgagcctt aactgctgg ccataacatt ctctagccc 180
acgctgaggc tgttgatctt tacaacaagc attacaagcg cgac 224

<210> 344
 <211> 324
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(324)
 <223> unsure at all n locations

<400> 344

gtcctcctgt atgtatatct ttgatttttt ttattgtaat atgcatattg gtaactagtg 60
 aataatattt actacactaa tttgcagatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacaaatacg gaaaccacc tatctacatc 180
 acggagaacg gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 240
 ttaaatgact acaaaaaggct agattacatc cagcgccaca tcgctactct taaggnatcc 300
 atagacttgg gtcaaatgtg caag 324

<210> 345
 <211> 308
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(308)
 <223> unsure at all n locations

<400> 345

ggtcgtgtcc catacgaaaa gtcggcggtt acggatcaac aggccgaaca aaggtcctgg 60
 gacattaacc taggatgggt cttgganccg gttgttcgtg gtgactatcc cttctccatg 120
 agatcattgg caagggaacg actacccttc ttcactgaca aagagcaaga gaagctagtg 180
 ggttcctatg acatgttggg gttaaactat tatacctcaa ggttctctaa aaacatcgat 240
 atctcaccaa actactcgcc agtgctcaac actgacgacg catatgccag tcaagaaacg 300
 aatgggct 308

<210> 346
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 346

atcccttctc catgagatca ttggcaaggg aacgactacc cttcttcact gacaaagagc 60
aagagaagct agtgggttcc tatgacatgt tgggggttaa ctattataacc tcaaggttct 120
ctaaaaacat cgatatctca ccaaactact cgccagtgt caacactgac gacgcatatg 180
ccagtcaaga aacgaatggg cctgacggga atcccattgg tccttgatg ggaattcgt 240
ggatctacct atatcctgaa ggccataagg atctgcttat gatcatgaag 290

<210> 347
<211> 341
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(341)
<223> unsure at all n locations

<400> 347
cgaagggtga accttagctt tactacacga tctgcaagag taggcagcca aaatggagtc 60
caaatgttga gccctcggga atcccacaaa gggactggtt cccctctgac ttcaccttcg 120
gtgccgccat tcagcgtacc aaattgaagg tgcttgaat gaagatggaa aggggggaaag 180
caactgggat cattctgcca caatcatccg gaaaggatat ggacngggnn nantcagaca 240
ttggagcgaa ttcgtaccat atgtacanaa cggacgttag attgctcagg aaatgggcat 300
ggacgcatat angttctctn tntctggggc cagatnctgc c 341

<210> 348
<211> 286
<212> DNA
<213> Zea mays

<400> 348
gacgcatagg gcttgcattt gacgtaatgg gtcgtgtccc atacgaaaag tcggcggtta 60
cggatcaaca ggccgaacaa aggtcctggg acattaacct aggatggttc ttggagccgg 120
ttgttcgtgg tgactatccc ttctccatga gatcattggc aagggaacga ctacccttct 180
tcaactgaaa agagcaagag aagctagtgg gttcctatga catgttgggg ttaaactatt 240
atacctcaag gttctctaaa aacatcgata tctcaccaaa ctactc 286

<210> 349
<211> 220

09976054 "101501

<212> DNA
<213> Zea mays

<400> 349

gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact tgggatcaaa 60
tgtgcaaggc tacttgcgtt ggtctctgct ggacaacttt gaatggtttg ccggcttcac 120
cgaacgttat ggcattgtct acgtcgaccg caacaataac tgcacgcgct acatgaagga 180
gtctgccaag tggttgaaag agttcaacac cgcgaaaaag 220

<210> 350
<211> 480
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(480)
<223> unsure at all n locations

<400> 350

anaaaacggn atanagccat atgtaacaat ctttactgg gatgtncctc aagcacngag 60
aagngaagta cngcggcttc ctagntaaga gtcatangag cattgtanaa gattacacat 120
actntgctaa ggtgtgcttt gataacttnn gcgacaaggt gaagaaattg gttgaccttt 180
aatgagcccc anacatttac ttctttttcc tacngaactg gggtcctttg cnccaagttn 240
ggtgctnacc tggactagac tgtgncttnc caantgggaa ttcnctnatt gangctttac 300
aaatgggttg ccattaaca tttttctaaa ccactcttaa gctngttgat ctttaccanc 360
aancnnttnn ntcncnanca caccngnatt nggctttgct ttnactnaa angggctctg 420
ntccntacng taacaatcnn ttnnttgana aanangtccn nataaaaangg cnntnggaca 480

<210> 351
<211> 260
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(260)
<223> unsure at all n locations

<400> 351

cggatgtcag attgctgaag gaaatgggca tggacgcata taggttctct atctcttggc 60

ctagaataact gcctaaggga acggtcgaag gaggtattaa ccggatggca tcgattacta 120
 caaaaggctc atcaacttgt tgctagagaa tggcatagag ccatatgtaa caattttccc 180
 actgggatgt ccctcaagca ctagaagaga gttacggcgg tttntnggat aagtcceenta 240
 ggggggttnnn aantgnttnc 260

<210> 352
 <211> 228
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(228)
 <223> unsure at all n locations

<400> 352

gggaaaatgg ctccgcttct cgctgctgcc atgaaccacg ctgcagcccg tcctggcctt 60
 aggagccacc tagtaggacc caacaatgag agtttctcan ggcaccacct gccgtcttct 120
 tctccacaga gcagcaagcg aaggtgtaac cttagcttta ctacacgacg ngcnagagta 180
 ggcagccaag atggagtcen natgttgagc ccctcgaaa tcccacaa 228

<210> 353
 <211> 222
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(222)
 <223> unsure at all n locations

<400> 353

ggaatcaata gacttgggat caaatgtgca aggctacttc gcttgggtctc tgctggacaa 60
 ctttgaatgg tttgccggct tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa 120
 taactgcacg cgctacatga aggagtctgc caagtgggtg aaaganttca acaccgcgaa 180
 aaagcccagc aagaagattc ttacgccagc ttaaaaaanng gg 222

<210> 354
 <211> 223
 <212> DNA
 <213> Zea mays

<400> 354

09976054.101501

gaatcaatag acttggggat caaatgtgca aggtacttc gcttgggtctc tgctggacaa 60
 ctttgaatgg ttccgccggt tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa 120
 taactgcacg cgctacatga aggagtctgc caagtgggtg aaacagtcca acgccgcgaa 180
 gaagcccagc aagaagattc ttacgccagc ttagaaatcg ggg 223

<210> 355
 <211> 217
 <212> DNA
 <213> Zea mays

<400> 355

gcagctcaaa gctctagttc tagctagcta gcaaaggggg ggaaaatggc tccgcttctc 60
 gctgctgcc aagaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
 aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
 aggtgtaacc ttagctttac tacacgatct gcaagag 217

<210> 356
 <211> 214
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(214)
 <223> unsure at all n locations

<400> 356

acctgagggc ttgaaggatc tccttatgat catgaagaac aaatacggaa acccacctat 60
 ctacatcacg gagaacggaa tcggggatgt tgataccaag gagacacctc taccatgga 120
 ggatgcctta aatgactaca aaaggctaga ttacatccag cgccacatcg ctactcttaa 180
 ggnatcaata gaactgggat caaatgtgca aggc 214

<210> 357
 <211> 223
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 357
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggtccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatacctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctncac agaggaacaa gcgaaagtgt 180
 accttagctt tactacacga tctgcaagag taggcagcca aaa 223

<210> 358
 <211> 251
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations

<400> 358
 cttaaattgac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
 aatagacttg ggatcaaattg tgcaaggcta cttcgcttgg actctgctgg acaactttga 120
 atggattgcc ggcttcaccg aacggttatgg cattgtctac gtcgaccgca acaataactg 180
 cacgcgctca tgaaggagtc tgccaagtgg ttgnaagagt caacaccggn gaaaaagccc 240
 acaagaagat t 251

<210> 359
 <211> 268
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(268)
 <223> unsure at all n locations

<400> 359
 cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata aaaaactggn 60
 gtgtggtttc gaaccgaaaa ttttctgttt ttttccgcca cgagangttc tggaggcata 120
 ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt gtcattgatg 180
 caataaataa agtgatgggt ttccctgtta nanaaacnnn ngnnagtcaa gncntgacg 240
 aaantggcat cgatancanc tcgngcgc 268

<210> 360
 <211> 286
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

 <400> 360

 gaaaggtcat gggacatcaa cctaggatgg ttcttagagc cagtgggtcg tggtgactac 60
 cccttctcca tgagatgcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 120
 ggagaagctc gccggttctt ataacatgtt ggggttaaac tactacacct gcacgggttct 180
 ccaaaaacat cgacatctgc accaaactan tgcacctgtg ctcaacatga cgacgcctac 240
 gccatcaaga agttaacggg ctgacgggaa gccattggt ctctat 286

<210> 361
 <211> 337
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

 <400> 361

 gggaacgact acgcttnttc aaggacgagc aganggagaa gctcgcnggt tcctataana 60
 tgttgggggt aaactactac acctnacggg tntccanaaa catcgactcn cnaccaaact 120
 actcacacnt gctcaacact gacgacgcta cgcnagtnaa gaagttaacg ggcctgacgg 180
 gagccttgg tcctcttatg ggntctccat ggatctacat gtaccctgag ggcttggtng 240
 gatctcttat gatcatgaag aacaaatacg gaaaccacn tatctanatn aggagangga 300
 atcggggatg ttgataccan gagacactct acccatg 337

<210> 362
 <211> 312
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(312)
 <223> unsure at all n locations

05976054.101501

<400> 362
cnaaagctct agttctagct agctagcaaa gggggggaaa atggctcngc ttctcgctgc 60
tgccatgaac cangctgcag cccatcctgg ccttaggagc nacctagtag gacccaacaa 120
atggagngtt tctcacggca ccacctgccg tcttcttctc canagagcag caagcgaagg 180
tgtaacctta gctttactac acggtctgca aggnntaggc agccaaaatg gnggtcccaa 240
atnttncagc ccctcntnga atccntgnaa ggnnctggcc cccctncnnt ttaaaatncg 300
gngcagcnaa tt 312

<210> 363
<211> 217
<212> DNA
<213> Zea mays
<220>
<221> unsure
<222> (1)...(217)
<223> unsure at all n locations

<400> 363
gaagattctt acgccagctt agaaatcggg ggccctcatga tgtgggtgca gcccataaaa 60
aactggtgtg tggtttcgaa ccgaaaatct tctgtttttt tccgccacga gaggttcttg 120
aggcatactc tccagcaccg ttggnataa cgcattgttc caattcagtc tggtttgtca 180
tgcattgcant aaataaagtg atgggtttcc ctgnttc 217

<210> 364
<211> 199
<212> DNA
<213> Zea mays

<400> 364
gttggaata aactactaca cctcaatatt ctccaaacat atcgacatct caccaaaata 60
ctcgctgtt ctcaacactg acgacgccta cgctagtcaa gaaacgtatg ggctgacgg 120
gaaacccatt ggtcctccta tgggaaatcc gtggatctac ttatacccag aaggcctaaa 180
ggatatcctt atgatcatg 199

<210> 365
<211> 200
<212> DNA
<213> Zea mays

<400> 365
 ggaacgacta cccttcttca aggacgagca gaaggagaag ctgcgcggtt cctataacat 60
 gttgggggta aactactaca cctcacggtt ctccaaaaac atcgatatct caccaaacta 120
 ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg ggccctgacgg 180
 gaagccatt ggtcctccta 200

<210> 366
 <211> 265
 <212> DNA
 <213> Zea mays

<400> 366
 ggtgactatc ccttctccat gagatcattg gcaaggggaac gactaccctt cttcactgac 60
 aaagagcaag agaagctagt ggggttcctat gacatgttgg gggttaaacta ttatacctca 120
 aggttctcta aaaacatcga tatctacca aactactcgc cagtgtctcaa cactgacgac 180
 gcatatgcca gtcaagaaac gaatgggcct gacgggaatc ccatttgtcc ttggatgggg 240
 aattcgtgga tctacctata tcctg 265

<210> 367
 <211> 211
 <212> DNA
 <213> Zea mays

<400> 367
 caagcagctc aaagctctag ttctagctag ctagcaaagg gggggaaaat ggcaccgctt 60
 ctgcgtgctg ccatagaacca cgctgcagcc catcctggcc ttaggagcca cctagtagga 120
 cccaacaatg agagtttctc acggcaccac ctgccgtctt cttctccaca gagcagcaag 180
 cgaaggtgta accttagctt tactacacga t 211

<210> 368
 <211> 239
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(239)
 <223> unsure at all n locations

<400> 368

cttatatgnc tacnaaaggg ttgatnacat cnagngccnc atcnctantg ttantnaatc 60
tatngacttg ggatcaantg gncgatgctn cttcgnttgg antctgctgg acaactttga 120
angnattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
cacgcgctac atgaaggagt ctgccaagtg gttgaaagag ttcaacaccg cgaaaaagc 239

<210> 369
<211> 195
<212> DNA
<213> Zea mays

<400> 369

cgacgacacc cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc 60
gtttctggat aaacaggccg aagaaaggct ctgggacatc aacctaggat gggtcttaga 120
gccagtgggt cgtggtgact accccttctc catgagatca ttggctaggg aacgactacc 180
cttcttcaag gacga 195

<210> 370
<211> 193
<212> DNA
<213> Zea mays

<400> 370

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
aaccttagct tta 193

<210> 371
<211> 198
<212> DNA
<213> Zea mays

<400> 371

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
tgccatgaac cacgctgcag ccatcctgg cttaggagc cacctagtag gaccaacaa 120
tgagagtttc tcacggcacc acctgccgtc ttcttctcca cagagcagca agcgaaggtg 180
taaccttagc ttactac 198

<210> 372
<211> 328
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(328)
<223> unsure at all n locations

<400> 372

attggaaact cgctcactga gccatacact gttggccata accttctccg agcccacgct 60
gaggctgttg atctttacaa caagtattac aagggtgaga atggacgcat agggcttgca 120
tttgacgtaa tgggtcgtgt ccatacga aagtcggcgt ttacggatca acaggccgaa 180
caaaggtcct gggacattaa cctaggatgg ttcttggagc cggttgttcg tggtgactat 240
ccctctccat gagatcatgg caaggaacga ctacccttct tcatgacaaa gagcaagaga 300
agctatgggt tctatgacng ttgggtta 328

<210> 373
<211> 239
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 373

gaaaggtcct gggacatcaa ccanggatgg ttcttangag ccagtgggtan cgtgggtgact 60
aacccttctc catgagatca ttggctaggg aacgactacc cttcttcaag gacgagcaga 120
aggagaagct cgccgggttc tataacatgt tgggggttaa ctactacacc tcacgggttct 180
ccaaaaacat cgatatctca ccaaactact cacctgtgtc acatgangac gcctagcca 239

<210> 374
<211> 212
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(212)
<223> unsure at all n locations

<400> 374
 agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgettct 60
 cgctgctgcc atgaaccacg ctgcagccca tcttggcctt aggagccacc tagtangacc 120
 caacaatgag agtttctcac ggcaccacct gcngtcttct tctncacaga gcggaagcg 180
 aaggngtaac ctgagcttta ctanangttt gc 212

<210> 375
 <211> 221
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(221)
 <223> unsure at all n locations

<400> 375
 caagantagg cagccaaaat ggagtccaaa tgttgagccc ctcggaatc ccacaaaggg 60
 actggttccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa attgaagggtg 120
 cttggaatga agatggaaaag ggggaaagca actgggatca cttctgcnac aatcatccgg 180
 aaaggatctg gnnngggagca ttccagacat gggncgattt c 221

<210> 376
 <211> 212
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(212)
 <223> unsure at all n locations

<400> 376
 ctagctagct agcagggggg gaaatggctc cacttctcgc cgcagccatg aaccacgctg 60
 ctcatccagt ccttagaagc catctaggan ccaacaatga gagtttctca cgacaccacc 120
 tatnttcttc accgcaaagc agtaagcgaa ggtttaacct tagctttacg ccagatctgc 180
 aaagnaggca atcaaaatgg agtccattgt tg 212

<210> 377
 <211> 180
 <212> DNA
 <213> Zea mays

<400> 377
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180

<210> 378
 <211> 266
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 378
 aatcaataga cttgggatca aatgtgcaag gtacttcgct tgggctctgc tggacaactt 60
 tgaatgggtc gccgcttcac cgaacgttat ggcattgcta cgcgaccgca acantaactg 120
 cacgcgctca tgaaggagct gcaagtgggt gaaacagttc aacgccgcga agaaccacaca 180
 agaagattct tacgccagct tagaaatcgg gggcctcatg atgtgggtgc agnccataaa 240
 aactggnggt ggttcgaacc gaaatt 266

<210> 379
 <211> 274
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 379
 catcgtttct ggataaacag gccgaagaaa ggtcctggga catcaaccta ggatggttct 60
 tagagccagt ggttcgtggt gactaccctt tctccangag ntnagtggct aggggganggg 120
 gganncnctg cncttggttg ttatgnnggg gnaagncnngn gggggncctn aaaaaattng 180
 gggtnaactt gacaccctca cggntctcca aaaacatoga tatctcacca aactactcac 240
 ctgtgctcaa cactgacgac gcctacgcca gtca 274

<210> 380

<211> 209
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(209)
 <223> unsure at all n locations

<400> 380

cgccaattc natttttatt tgtgcaggaa tcggggatgt tganaccaag gagacacctc 60
 taccatgga ggatgcctta nntgactaca anaggctaga ttacatccag cgccacatcg 120
 ctactcttaa ggaatcaata gacttgggat caaatgtggc aatgctactt cgcttggctc 180
 ctgctggaca actttgaatg gtgcgcgg 209

<210> 381
 <211> 183
 <212> DNA
 <213> Zea mays

<400> 381

ggtgcttga atgaagatgg aaagggggaa agcaactggg atcacttctg ccacaatcat 60
 ccggaaagga tactggacgg gagcaattca gacattggag cgaattcgta ccatatgtac 120
 aaaacggacg tcagattgct caaggaaatg ggcatggacg catatagtgc tctatctctt 180
 ggc 183

<210> 382
 <211> 238
 <212> DNA
 <213> Zea mays

<400> 382

gggtgagaat ggacgcatag ggcttgcat tgcgtaatg ggtcgtgtcc catagaaaa 60
 gtcggcggtt acggatcaac aggccgaaca aaggtcctgg gacattaacc taggatgggt 120
 cttggagccg gttgttcgtg gtgactatcc cttctccatg agatcattgg caagggaacg 180
 actacccttc ttactgaca aagagcaaga gaagctagtg ggttcctatg acatgttg 238

<210> 383
 <211> 167
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(167)
 <223> unsure at all n locations

<400> 383

caattttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata 60
 agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc tttgataact 120
 tcggcgacaa ggtgaagaat tggttgacct ttaatgagcc cnagact 167

<210> 384
 <211> 210
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(210)
 <223> unsure at all n locations

<400> 384

canaactact cacctgtgct caacactgac gacgcctacg ccagtcaaga aantaacggg 60
 cctgacggga agcccattgg tcctcctatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacanatang ganncccant tatntggtna 180
 cggaaaancgg nngttggata gngnncccc 210

<210> 385
 <211> 360
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(360)
 <223> unsure at all n locations

<400> 385

cagaaacctc atcaacntgn tgctaganaa cgggcataga gccatatgta acaattttcc 60
 actgggatgt acctcncagc actagaagag aagtacggcg gcttccctag ataagagtca 120
 tangagnagt gtagangatt anacatactt gtgctnaggt gtgttggnat aactcncgnc 180
 gnacataggt gaaagaattg agtaganctg antgagcncc cagacantta anttcgnntn 240
 tccnaacngg aactgtnggn cttgtgcnc caggtcggtg ctcanctggg actagactgt 300

09975054.101501

gcctacccca actgggnntt cactcgtcga gcctnnnact gctggcnata acattctcct 360

<210> 386
<211> 150
<212> DNA
<213> Zea mays

<400> 386

gccccaggtc ggtgctcacc tggactagac tgtgcctacc caactgggaa ttcactcgtc 60

gagccttaca ctgctggcca taacattctc ctagcccacg ctgaggctgt tgatctttac 120

aacaagcatt acaagcgcga cgacacccgc 150

<210> 387
<211> 164
<212> DNA
<213> Zea mays

<400> 387

ggttctccaa aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 60

ctacgccagt caagaagtta acgggcctga cggaagccc attggctctc ctatgggaaa 120

tccatggatc tacatgtacc ctgaagggtt gaaagatctc ctat 164

<210> 388
<211> 148
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(148)
<223> unsure at all n locations

<400> 388

ctctagttct agctagctag caaagggggn gaaaatggct ccgcttctcg ctgctgcnat 60

gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggaccca acaatgagag 120

tttctcacgg caccacctgc cgttttct 148

<210> 389
<211> 219
<212> DNA
<213> Zea mays

<400> 389

aaatgtgcta acccaattgg aaactcgctc actgagccat aactgttgg ccataacctt 60
 ctccgagccc acgctgaggc tgttgatctt tacaacaagt attacaaggg tgagaatgga 120
 cgcatagggc ttgcatttga cgtaatgggt cgtgtcccat acgaaaagtc ggcgtttacg 180
 gatcaacagg ccgaacaaag gtcttgggac attaaccta 219

<210> 390
 <211> 160
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(160)
 <223> unsure at all n locations
 <400> 390

gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaaggc gaagaattgg 60
 ttgaccttta atgagcccca gacattactt ccttttccca cggaaactggg gtcttttccc 120
 cangtcggng ctcantggac tagactgtgc ctacccannt 160

<210> 391
 <211> 139
 <212> DNA
 <213> Zea mays
 <400> 391

caacactgac gacgcctacg ccagtcaca agttaacggg cctgacggga agccattgg 60
 tcttcctatg ggaaatccat ggatctacat gtaccctgag ggcttgaagg atctccttat 120
 gatcatgaag acaaaatag 139

<210> 392
 <211> 150
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(150)
 <223> unsure at all n locations
 <400> 392

gtctctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 60
 nncgcatagg gcttgcggtt gacgtaatgg gtctgtgcc atacggaaca tcgtttctgg 120

ataaacaggc cgaagaaagg tcctgggatt 150

<210> 393
 <211> 175
 <212> DNA
 <213> Zea mays
 <400> 393

tggacagtga gggcttgcatt ttgacgtaat gggctcgtgc ccatacgaaa agtcggcggtt 60
 tacggatcaa caggccgaac aaaggctcctg ggacattaac ctaggatggg tcttggagcc 120
 ggttggttcgt ggtgactatc ccttctccat gagatcattg gcaagggaac gacta 175

<210> 394
 <211> 133
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(133)
 <223> unsure at all n locations
 <400> 394

cggtatgtcag attgctgaag gaaatgggca tggacgcata taggttctct atctcttggc 60
 cnanaataact gcctaaggna acggtcgaag gaggtattaa ccaggatggc atcgattact 120
 acaaaaggct cat 133

<210> 395
 <211> 129
 <212> DNA
 <213> Zea mays
 <400> 395

cagaaacctc atcaacttgt tgctagaaaa cggcatagag ccatatgtaa caattttcca 60
 ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata agagtcataa 120
 gagcattgt 129

<210> 396
 <211> 127
 <212> DNA
 <213> Zea mays
 <220>

<221> unsure
 <222> (1)...(127)
 <223> unsure at all n locations

<400> 396

gggataaaca ggccgaagaa aggtcctggg acatcaacct aggatgggtc ntagagccag 60
 tggttcgtgg tgactacccc ttctccatga gatcattggc tagggaacga ctacccttct 120
 tcaagga 127

<210> 397
 <211> 126
 <212> DNA
 <213> Zea mays

<400> 397

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgccat 60
 gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggaccca acaatgagag 120
 tttctc 126

<210> 398
 <211> 238
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(238)
 <223> unsure at all n locations

<400> 398

cngnncgntg ggtcgaccca ccgctccgc nccaacgcgt ccgcgacgc gtgggcaaag 60
 cagctcaaag ctctagtact agctagctag caaagggggg gaanntgget ccgcttactc 120
 gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 180
 aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagg 238

<210> 399
 <211> 131
 <212> DNA
 <213> Zea mays

<400> 399

agaatactgc cgaagggaac caaagaagga ggtattaacc cggatggcat caagtactac 60

09976054.101501

agaacacctc atcaacttgt tgctagaaaa cgcatagag ccatatgtaa caattttcca 120
ctgggatgta c 131

<210> 400
<211> 132
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(132)
<223> unsure at all n locations

<400> 400

agcagctcaa agctctagtt cnagcnagcn agcaaagggg gggaaaatgg ctccgcttct 60
cgngcngcc atgnacncac gctgcagccc ancnngcct taggagccac cnagtaggnc 120
ccaacaatga ga 132

<210> 401
<211> 116
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(116)
<223> unsure at all n locations

<400> 401

ancagctcaa agctctagtt ctagctagct agcaaanggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccact agtagg 116

<210> 402
<211> 123
<212> DNA
<213> Zea mays

<400> 402

cgctgagccc ctcggaagtc cctaaaagag actggttccc ctctgacttc atctttggtg 60
ccgccacttc agcgtaccaa attgaagggtg gatggaacga ggatggaaag aagccaagca 120
cat 123

<210> 403
<211> 132

<212> DNA
<213> Zea mays

<400> 403

ggacgcatag ggcttgcatt tgacgtaatg ggtcgtgtcc catacgaaaa gtcggcggtt 60
acggatcaac aggccgaaca aaggtcctgg gacattaacc taggatgggt cttggagccg 120
gttgttcgtg gt 132

<210> 404
<211> 105
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(105)
<223> unsure at all n locations

<400> 404

gaggctgttg atctttacaa caagcattac aagcgcgacg acaccgcat agggcttgcg 60
nttgacgnaa tgggtcnggt gccatacgga anntccgttc nnggg 105

<210> 405
<211> 92
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(92)
<223> unsure at all n locations

<400> 405

ggagacatcg tttctggata aacaggccga agaaaggtcc tgggacatca acctaggatg 60
gttcttagag ccagtngttc gtggtgacta cc 92

<210> 406
<211> 443
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(443)
<223> unsure at all n locations

<400> 406

gacaggggtga agaactgttt tancttcaac gagccgaggt gcgtcgngg tcngggctac 60
gacaatggct tgcacgcacc gggaaggtgt tccgggtgcc ccgccggagg caactccacc 120
acggagccgt accttgtegc acaccatctc atcctttctc atgcagctgc ngtcaggcga 180
taccgcgaca agtatcagct tcaccagaag gggaagattg gaattctcct ggatttcgtg 240
tggtacgaac ctttcagcga cagcaatgcn gaccaggctg cagcacagcg agccagggac 300
ttccacctaa gctgggttcct tgacccatt gtcattggacc gtcccgact ngatgcaaga 360
aaatgnccaa nacaagnttn ccgntgggta accattgaaa aaaccncgat ggtgnaaagg 420
tttatngacn atttttggnt tca 443

<210> 407
<211> 291
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(291)
<223> unsure at all n locations

<400> 407

aactgggttta cttttcaacg agccgaggtg cgctcgctgct ctgggctacg acaatggctt 60
gcacgcaccg ggaaggtgtt ccgggtgcc ccgccggagga actccaccac ggagccgtac 120
cttgtegcac accatctcat cttttctcat gcagctgcgg tcaggcgata ccgcgacaag 180
tatcagcttc accagaaggg gaagattgga atctcctgga tttcgtgtgg tacgaacctt 240
tcagcgacan aatgcggacc aggtgcagc acagcgagcc aggattccac t 291

<210> 408
<211> 256
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

<400> 408

tgctcgctg ctctgggcta cgacaatggc ttgcacgcac cgggaaggtg ttccgggtgc 60
ccgcgggag gaactccacc acggagccgt accttgtegc acaccatctc atcctttctc 120

atgcagctgc tgnaggnga taccgcnaca agtatnanct tcaccagaag gggaagattg 180
 gaantattat agattttntg tngtangaac ctttatctac ancaatgcng acnangctgc 240
 agcacagcna gccang 256

<210> 409
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

<400> 409

acaccatctc atcctntctc atgcagctgc ngtcaggcga tncgcgcaca agtatcagct 60
 tcaccagaag gggaagattg gaattctcct ggatttcgtg tggtagaac ctttcagcga 120
 cagcaatgcg gaccaggctg cagcacagcg anccagggnc tttcacctag gctgggtcct 180
 tganccatt gtacatggac ggtaccgta ctgatgnaa gagatgcna agacaggnta 240
 ccgttgttca gcgatgnaga agccaggatg gtgaaangct ctatngatta tgttggcatc 300
 aaccac 306

<210> 410
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 410

cgcacacccat ctcatccttt ctcatgcagc tgcggtcagg cgataccgcg acaagtatca 60
 gcttcaccag aaggggaaga ttggnattct cctggatttt gtgtggtacg aacctttcag 120
 cgacagcaat gcggaccagg ctgcagcaca gcgagccagg gacttccacc taggctgggt 180
 ccttgacccc attgtacatg gacggtaccc gtactcgatg caagagattg ccaaagacag 240
 gctaccgttg ttcagcgatn aagaagccag gatggtgaaa ggctc 285

<210> 411
 <211> 202

<212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(202)
 <223> unsure at all n locations

<400> 411

ttggaattct cctggatttc gtgtggtacg aacctttcag cgacagcaat gcggaccagg 60
 ctggcagcac agcgagccag ggacttccac ctaggctggt tccttgaccc cattgtacat 120
 ggacggtacc cgtactcgat gcaagagatt gccaaagana ggctaccggt gtccagcgtg 180
 aaganccng gatggtgaaa gt 202

<210> 412
 <211> 427
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(427)
 <223> unsure at all n locations

<400> 412

gtctgccatg ggtcaaangg ctcangcggg anttacgtcg ggcattcaaa ccactacacc 60
 cacgtactta cgcccagcaa ctttcgtcaa acgcccacag aagaccaaac ttaccgcaan 120
 cgattgggaa tgcaaagatt tcgtatgagc gagatggtgt gccattggc aaaagggcgt 180
 actcggactg gctttacgtc gttccatggg ggctctacaa ggctctgatt tggaccaagg 240
 agaagttcaa cagccctgtg atgctcatcg gagagaacgg aattgaccag cctggaaatg 300
 agaccttgcc gttcgtctcg tacgacaagt tcaggataga ctacttcgag aagtacctgt 360
 acgagctcca gtgcgccata cgcgacggtg caaacgtctt cggctacttc gcgtggtcgc 420
 tgctgga 427

<210> 413
 <211> 292
 <212> DNA
 <213> Zea mays

<400> 413

agaccaacta ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgccca 60

ttggcaaaag ggcgtactcg gactggcttt acgtcgttcc atgggggctc tacaaggctc 120
 tgatttggac caaggagaag ttcaacagcc ctgtgatgct catcggagag aacggaattg 180
 accagcctgg aaatgagacc ttgccgttcg ctctgtacga caattcagga tagactattc 240
 gagaagtacc tgtacgagct ccagtggcgc catacgcgac ggtgcaaacg tc 292

<210> 414
 <211> 467
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(467)
 <223> unsure at all n locations
 <400> 414

ggcctgcagc gccagcgcag cgctctctcg ctactgtgct ggctgacgcc ggtggggngt 60
 gagcgaactg cgagctgctg ccaccctgc tgccgcggtc gaccgccggc cccggaccga 120
 gatggacgct cgggtgggcg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180
 ctgcgccgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcggt 240
 cccaagggg ttcgtgttcg ggacggcgac gtnngcgtag caggctgagg gcgccngtn 300
 caccaacggn cggggcccct tcactctggga ttcattcgcg cacgttccaa gaaatattgc 360
 anggaatcaa aatggaaacg tttcaatgga tcaataccat cgntncaagg aaanacgtcg 420
 attctcatga aaaggttgaa cttttgatgc ctaccggntc tnaatnt 467

<210> 415
 <211> 441
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(441)
 <223> unsure at all n locations
 <400> 415

ggcnagcag tgtggctgcc gcttnctctg cgagtnaggc gccatttaat aattcaattg 60
 gaccnccaag cccacgcttc cgaattcacc gactcctcct ncacgccgcg tcgagatcgc 120
 tcaggccttc gcttccagca actccaccac tcagnccacc cgccggagca atggggagca 180
 cngggcgcgga gccggagggt acccgcgccg acttncccga tggcttcgnc ttcggcggtg 240

ccacctgcgt gtaccagatt ganggagcga gaagggaggg aggcaaagga gacagcatat 300
 gggatgtatt tacagatgac aaagaacatg tcttanacag aagcaatgga gaaattgcaa 360
 gttgatcact accatcgatc aaggaaagac attgagctna tggcaaagtc taggnnttag 420
 cgcatacaga tttctatata t 441

<210> 416
 <211> 407
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(407)
 <223> unsure at all n locations

<400> 416

gggcgaagtt ccgtgctcgc gctgcttctc ctgctttccg ccggaggagc ccgagcgtcc 60
 tacgacggcg agggcgaggc aggggcaggg gcagaggaga aggagaaggc tgcggcgtgg 120
 acgggcgggc tgagccggcg gagctttccc aaggggttcg tgttcgggac ggccggcgtcg 180
 gcctaccagg tggagggcat ggcgacacaag gacggccgcg ggccgagcat ttgggacgcc 240
 ttcatcaaga tccccgtagt acacttgtat ggattgcata tgaaaatgca tcgatcgtgg 300
 attgaattgg cttgacatgg ttggatnatg gcatggcaaa tggcggcgtc ctgcttttca 360
 ggcgaaattc gcaaacaacg ccaaccgcgg acgttaactg ttgacga 407

<210> 417
 <211> 307
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(307)
 <223> unsure at all n locations

<400> 417

ctcgctcact tcttcccagc ggagtgcgca gtcgtcatgg ctaangctag ccgtggtcgt 60
 gtcggcggcg gcgggcgaag ttccgtgctc gcgctgcttc tctgctttc cgccggagga 120
 gcccgagcgt cctacgacgg cgagggcgag gcaggggcag gggcagagga gaaggagaag 180
 gctgcgncgt ggacgggcgg gctgagccgg cggactttcc caaggggttc gtgttcggga 240

cggcgncgtc ggcctaccag gtggagggca tgnccgacaa ggacggccgc tggcctagca 300
 tttggta 307

<210> 418
 <211> 272
 <212> DNA
 <213> Zea mays

<400> 418

ctagagtcca ggtctcactc gcgaccgaga gccacagaga aatggggggc cctgctcgtc 60
 cctggcgccg gcacgtcttc ctctcgtgt cgctgcagct gtccttctg gcgccatggc 120
 aggacgagac ggccgctcga gctctcaatt tcaccaggca ggatttcccc agggccttcg 180
 tctttgtg cggcacgtca gcttatcagt acgaaggga accgatgaag acggaaggag 240
 ccccaagcat atgggacaat ttactcatgc ag 272

<210> 419
 <211> 452
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(452)
 <223> unsure at all n locations

<400> 419

tcggaatagt cctggacttc aactgggtac aggtctttac aaactcacct gatgaccaag 60
 cagcagccca aagagccagg gacttccaca ttggctggtt tgttgatcca ttgataaacg 120
 gacactatcc acagataatg caagatctcg tgaaggagag gctgcccagg ttcactctg 180
 agcaggctaa actggtgaag ggctcggcag actacatcgg tatcaacgag tacacatcca 240
 gctacatgaa ggggcagaag ctgggtccagc tggcgcccag tagctactct gccgattggc 300
 aggttcaata tgtttttgca cgcaatggca aaccgattgg accacaggcg aattctaagt 360
 ggctctacat cgccccgacg gggatgtacn ggtgcgtgaa ctaccttaag gagaagtatg 420
 ggaatncaac gatctacata acggagaacg ga 452

<210> 420
 <211> 450
 <212> DNA
 <213> Zea mays

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<220>
 <221> unsure
 <222> (1)...(450)
 <223> unsure at all n locations

 <400> 420

atcttcccgg atggcgaagg gaaagtcaat ccagaagggtg tagcgtatta caatanttng 60
 ataaactatc tgcttcagca aggcattgact ccttacatca acctttacca ctatgatctt 120
 cctcttgccg ttgagaagaa atatggaggg tgggtaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacggcgatc gcgtaaagca ctgggtttaca 240
 ttcaatgagc caaggatagt agcgctactt ggctatgaca cagggtcaaa tcctcctcaa 300
 aggtgcacca gatgcgctgc tgggtgggaat tcagcaaccg aaccttacat agttgctcat 360
 aattttctct tggcacatgc tactgcagtt gcaagatacc gtacgaaata tcangctgct 420
 caaaanggta aggtccgaat agtcctggac 450

<210> 421
 <211> 464
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

 <400> 421

tgcagttgca agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt 60
 cctggacttc aactggtacg aggcctctac aaactcacct gatgaccaag cagcagccca 120
 aagagccagg gacttcacca ttggctgggt tgttgatcca ttgataaacg gacactatcc 180
 acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg agcaggctaa 240
 actggtgaag ggctcggcag actacatcgg tatcaacgag tacacattca gctacatgaa 300
 ggggcagaag ctgggtccagc tggcgcccag tagctactct gccgattggc aggttcaata 360
 tgtttttgca cgcaatggca aaccgattgg accacaagcg aattctaaag tggctctaca 420
 tngncccgac ngggatgtcc nggtgctgga actancttaa gggg 464

<210> 422
 <211> 471
 <212> DNA
 <213> Zea mays

05976054.101501

<220>
 <221> unsure
 <222> (1)...(471)
 <223> unsure at all n locations

<400> 422

ccaagttcac tcctgagcag gctaaactgg gtgaagggct cggcagacta catcggtatc 60
 aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gccagtagc 120
 tactctgccg attggcaggt tcaatatgtt tttgcacgca atggcaaacc gattggacca 180
 caggcgaatt ctaagtggct ctacatcgcc ccgacgggga tgtacgggtg cgtgaactac 240
 ctcaaggaga agtatgggaa tccaacgatc tacataacgg aagaacggaa tggaccagcc 300
 tggaaacttg acccgagacc agtacctgcg cgacgccacg aggggtgcgg tctacaggag 360
 ctacatcgcc caactgaaga aaggccatag accaaggagg cgaacgtggc tgggctactt 420
 cgccctgggt ctctcctccn acaacttcga ntggctggca agggttactc c 471

<210> 423
 <211> 465
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(465)
 <223> unsure at all n locations

<400> 423

cagaagggta aggtcggaat agtcctggac ttcaactggc acgaggctct taaaaactca 60
 cctgatgacc aagcagcagc ccaaagagcc agggacttnc acattggctg ggtttgttga 120
 tccattgata aacggacact atccacagat aatgcaagat ctctggaagg agaggctgcc 180
 caggttcact cctgagcagg ctaaactggg tgaaagggct cggcagacta catcggtatc 240
 aacgaagtac acattcagct acatgaaggg gcagaagctg gtccagctgg cncccaatag 300
 ctactctgcc gattggcagg ttcaatatgt ttttgcacgc aatggcaaac cgattggacc 360
 acaggcgaat tctaaagtgg ctctacattg ccccgacggg gatgtacngg tgcgtgaact 420
 acctcaagga gaagtatggg aatncaacga tctacataac ggaga 465

<210> 424
 <211> 463
 <212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(463)
 <223> unsure at all n locations

<400> 424

ctttaccact atgatcttcc tcttgcgctt gagaagaaat atggagggtg gttaagcgcg 60
 aagatggcgg acttggttac agactatgct gacttctgtt ttaagaccta cggcgatcgc 120
 ggtaaagcac tggtttacat tcaatgagcc aaggatagta gcgctacttg gctatgacac 180
 agggtc aaat cctcctcaaa ggtgcaccag atgcgctgct ggtgggaatt cagcaaccga 240
 accttacata gttgctcata attttctctt ggcacatgct actgcagttg caagataccg 300
 taccgaaata tcaggctgct canaagggtt aaggctcgaa tagtcctgga cttcaactgg 360
 gaccaaggct nttacaaact tnaccttgat gaccaagca nnangccna aaaagccagg 420
 ggccttncaac atggctnggt ttggtngatc cattgataaa ccg 463

<210> 425
 <211> 319
 <212> DNA
 <213> Zea mays

<400> 425

tgctactgca gttgcaagat accgtacgaa atatcaggct gctcagaagg gtaaggctcg 60
 aatagtcctg gacttcaact ggtacgagc tcttaciaaac tcacctgatg accaagcagc 120
 agcccaaaga gccagggact tccacattgg ctggtttgtt gatccattga taaacggaca 180
 ctatccacag ataatgcaag atctcgtgaa ggagaggctg ccaggttca ctctgagca 240
 ggctaaactg gtgaagggtc cggcagacta catcggtatc aacgagtaca catccageta 300
 catgaagggc agaactggt 319

<210> 426
 <211> 453
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(453)
 <223> unsure at all n locations

<400> 426

atcttcccgg atggcgaagg gaaagtcant ccagaaggtg tagccgtatt acaatagttt 60
gataaactat ctgcttcagc aaggcatgac tccttacatc aacctttacc actatgatct 120
tnctcttgcg cttgagaaga aatatggagg gtgggtaagc gcgaagatgg cggacttggt 180
tacagactat gctgacttct gttttaagac ctacngcgat cgcgtaaagc actgggtttac 240
attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa attctcctca 300
aaggtgcacc aaatgcncctg ctggtnggaa ttcagcaacc gancnttaca tatttgctca 360
taattatctn ttggcacatn ctantncagt tgcnnagatn ccggacgaan ttnnngctgc 420
tcanaaanng ttagngtnag gaattantcc tgg 453

<210> 427
<211> 377
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(377)
<223> unsure at all n locations

<400> 427

ctacctcaag gagaagtatg ggaatccaac gatctacata acggagaacg gaatggacca 60
gccttgaaac ttgacccgag accagttact gcgcgacgcc acgaggggtgc ggttctacag 120
gagctacatc ggccagctga agaaggccat agaccagggg gcgaacgtgg ctggctactt 180
ctcctgggtct ctcctcgaca attcgagtgg ctggcagggg actcgtccaa gttcggcatc 240
gtctacgtgg acttcaacac gctcgaacgc caccgaagg cgtcggccta ctngttcang 300
gacatgcttc agaagcattg agatctccag agccgagcct gagcacggaa ngtaaccattt 360
tgttcagctt cgcctag 377

<210> 428
<211> 302
<212> DNA
<213> Zea mays

<400> 428

cggacttggt tacagactat gctgacttct gttttaagac ctacggcgat cgcgtaaagc 60
actgggtttac attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa 120
atcctcctca aaggtgcacc agatgcgctg ctggtgggaa ttcagcaacc gaaccttaca 180

tagttgctca taattttctc ttggcacatg ctactgcagt tgcaagatac cgtacgaaat 240
atcagggtgc tcagaagggt aaggtcggaa tagtcctgga cttcaactgg tacgaggctc 300
tt 302

<210> 429
<211> 455
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(455)
<223> unsure at all n locations

<400> 429

ccangccttc ggaaaccgnt tggncanag gncaattcta angggnttta nattnggccc 60
gaccgggatn taccgggtnc cttnacctan ctttaaggga aaagatnggg aatccaacga 120
tctacataac ggagaacgga atggaccaac ctggaaactt gacccgagac cagtacctgc 180
gcgacgccac gaggtgctgc ttctacagga gctacatcgg ccagctgaag aaggccatag 240
accaggggagc gaacgtggct ggctacttcg cctggctctct cctcgacaac ttcgagtggc 300
tggcagggta ctctccaag ttcggcatcg tctacgtgga cttcaacacg ctggaacgcc 360
acccgaaggc gtcggcctac tgggtccaag gacatgcttc agaagcattg agatctncag 420
agcccagacc tgagcacgga aggtaccatt tttgt 455

<210> 430
<211> 312
<212> DNA
<213> Zea mays

<400> 430

cagaagggtta aggtcggat agtcctggac ttcaactggt acgaggctct taaaaactca 60
cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttgttgat 120
ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggtgccc 180
aggttcactc ctgagcaggc taaactgggt aagggtcgg cagactacat cggtatcaac 240
gagtacacat ccagctacat gaaggggcag aagctgtgcc agctggcgcc cagttagctac 300
tctgccgatt gg 312

<210> 431
<211> 305
<212> DNA
<213> Zea mays

<400> 431

cgaaatatca ggctgctcag aagggttaagg tcggaatagt cctggacttc aactggtacg 60
aggctcttac aaactcacct gatgaccaag cagcagccca aagagccagg gacttccaca 120
ttggctggtt tgttgatcca ttgataaacg gacactatcc acagataatg caagatctcg 180
tgaaggagag gctgcccagg ttcactcctg agcaggctaa actggtgaag ggctcggcag 240
actacatcgg tatcaacgag tacacatcca gctacatgaa ggggcagaag ctggtccagc 300
tggcg 305

<210> 432
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 432

tgctactgca gttgcaagat accgtacgaa atatcaggct gtcagaagg gtaaggctcg 60
aatagtcttg gacttcaact ggtacgaggc tottacaac tcacctgatg accaagcagc 120
agcccaaaga gccagggact tccacattgg ctggtttgtt gatccattga taaacggaca 180
ctatccacag ataatgcaag atctcgtgaa ggagaggctg cccagggtta ctccctgagca 240
ggctaaactg gtgaanggct cggcagacta catcggatc aacgagtaca catccagct 299

<210> 433
<211> 323
<212> DNA
<213> Zea mays

<400> 433

gctggtccag ctggcgccca gtagctactc tgccgattgg cagggttcaat atgtttttgc 60
acgcaatggc aaaccgattg gaccacaggc gaattctaag tggctctaca tcgccccgac 120
ggggatgtac ggggtcgtga actacctcaa ggagaagtat gggaatccaa cgatctacat 180
aacggagaac ggaatggacc agcctggaaa cttgaccga gaccagtacc tgcgcgacgc 240

cacgaggggtg cggttctaca ggagctacat cggccagctg aagaaggcca tagaccaggg 300
agcgaacgtg gctggctact tcg 323

<210> 434
<211> 295
<212> DNA
<213> Zea mays

<400> 434

ggcgaattct aagtggctct acatcgcccc gacggggatg tacgggtgcg tgaactacct 60
caaggagaag tatgggaatc caacgatcta cataacggag aacggaatgg accagcctgg 120
aaacttgacc cgagaccagt acctgcgca cgccacgagg gtgcgggttct acaggagcta 180
catcggccag ctgaagaagg ccatagacca gggagcgaac gtggctggct acttcgcctg 240
gtctctcctc gacaacttcg agtggctggc agggctactcg tccaagtctg gcatc 295

<210> 435
<211> 287
<212> DNA
<213> Zea mays

<400> 435

tcttctctct gcgcttgaga agaaatatgg aggggtggtta agcgcgaaga tggcggactt 60
gtttacagac tatgctgact tctgttttaa gacctacggc gatcgcgtaa agcactgggt 120
tacattcaat gagccaagga tagtagcgt acttggtat gacacagggc caaatcctcc 180
tcaaagggtgc accagatgcg ctgctgggtg gaattcagca accgaacctt acatagttgc 240
tcataatttt ctcttggcac atgctactgc agttgcaaga taccgta 287

<210> 436
<211> 472
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(472)
<223> unsure at all n locations

<400> 436

gggacnncga gattnantgg tttgtcagat ccattgataa acnggacact anncacacat 60
gggtnnngga tntnatnaag gagagcctgc ccanttcac tcctgagcag nctagactgg 120

ngaagggctc ganagactac atcggtatca acgagtacac atccagctac atgaaggggc 180
 anaagctggg ccanntgcgc ccagtancta ctctgccgat tggcagggtc aatatnggtt 240
 tgcacgcaat gncanaccga ttggaccaca gnnagttct aagtggctct acatcgcccn 300
 nacggggatg tacgggtgcg tgaactacct caangagaag tatgngaate caacggatct 360
 acataacgga gaacggaatg gaccaacctg gaaacttgac ccgagaccag tacctgcgcg 420
 annccacgaa ngtgcggntc tacaggaact acatnggccca tntnaataaa gg 472

<210> 437
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 437
 agataccgta cgaaanatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 60
 aactggtacg aggtctttac aaactcacct gatgaccaag cagcagccca aagagccagg 120
 gacttccaca ttggctgggt tgttgattcc attgataaac ggacactatc cacagataat 180
 gcaagatctc gtgaaggaga ggctgcccg gttcactcct gagcaggcta aactggtgaa 240
 aggtctcgga gactacatcg gtatcaacga gtacacatcc agctacatga aggggcagaa 300
 g 301

<210> 438
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 438
 caagcagcag ccaaagagc cagggacttc cacattggct ggtttgttga tccattgata 60
 aacggacact atccacagat aatgcaagat ctctgaagg agaggctgcc caggttact 120
 cctgagcagg ctaaactggg gaagggtctg gcagactaca tcggtatcaa cgagtacaca 180
 tccagctaca tgaaggggca gaagctggtc cagctggcgc ccagtagcta ctctgccgat 240
 tggcagggtc aatatgtttt tgcacgcaat ggcaaaccga ttggaccaca ggccaat 297

<210> 439
 <211> 281
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

 <400> 439

 gttttaagac ctacggcgat cgcgtaaagc actggtttac attcaatgag ccaaggatag 60
 tagcgctact tggctatgac acaggggtcaa atcctcctca aagggtgcacc agatgcgctg 120
 ctgggtgggaa ttcagcaacc gaaccttaca tagttgcnca taattttctc ttggcacatg 180
 ctactgcagt tgcaagatac cgtacgaaat atcagggtgc tcagaagggt aaggtcggaa 240
 tagtcctgga cttcaactgg tacgaggctc ttacaaactc a 281

<210> 440
 <211> 306
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

 <400> 440

 cggaatggac cagcctggaa acttgacccg agaccagtac ctgcgcgacg ccacgagggg 60
 gcggtttctac aggagctaca tcggccagct gaagaaggcc atagaccagg gagcgaacgt 120
 ggctggctac ttcnctgggt ctctctcga caacttcgag tggctggcag ggtactcgtc 180
 caagttcggc atcgtctacg tggacttcna cacgctcgaa cgccaccga aggcgtcggc 240
 ctactngttc agggacatgc ttcagaagcn tgagatctcc aganccgagc ctgagcacgg 300
 aagtac 306

<210> 441
 <211> 294
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 441

gggacttcca cattggctgg tttgttgatc cantgataaa cggacactat ccacagataa 60
 tgcaagatct cgtgaaggag aggctgcca ggttcactcc tgagcaggct aaactgggtga 120
 agggctcggc agactacatc ggtatcaacg agtacacatc cagctacatg aaggggcaga 180
 agctgggtcca gctgggcgcc agtagctact ctgccgattg gcagggttcaa tatgtttttg 240
 cacgcaatgg caaaccgatt ggaccacagg cgaattctaa gtggctctac atcg 294

<210> 442

<211> 471

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(471)

<223> unsure at all n locations

<400> 442

gcgtccacca acggccgggg cccctccatc tgggattcat tcgcgcacgt cccaggaaat 60
 attgcnggga atcaaatgg agacgttgca gtggatcaat accatcgcta caaggaagac 120
 gtcgatctca tgaaaagttt gaactttgat gcctaccggt tctcaatctc atggtccagg 180
 atcttcccgg atggcgaagg gaaagtcaat ccagaagggt tagcgtatta caataatttg 240
 ataaactatc tgcttcagca aggcattgact ccttacatca acctttacca ctatgatctt 300
 cctcttgccg ttgagaagaa atatgggagg gtgggttaagc cgcgaaagat ggccgggactt 360
 ggttacagac tatgctgact tctgggttaa gacctacggn gaatcgcgtn aaagcactgg 420
 gttacanttc atngnccaa ggtagtacc gctacttggg ttttnaacia g 471

<210> 443

<211> 452

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(452)

<223> unsure at all n locations

<400> 443

gttcttgatc agattgttga cttttatctg nnnngncaga aagntanngn cnggaanagt 60

09976054.10150.1

```
cctggacttc aacnggtacg aggctcttac aaactcacct gatgaccaag caancancnn 120
aaanagccag gnacttgcac atnggcnggn nngtagatcc attgataaac ggacactatc 180
cacagataan gcaagatctc gcgaaggaga ggctgcccag gttcactccn gagcaggcta 240
aactggtgaa gggctcgnca gactacatcn gtatcaacga gtacacatcc aactacatga 300
anggggcana anctgganca gctggccccc agganctact ctgccgaatg gcaggttcaa 360
tatgtntttg cacgcaatgg caaaccatt ggaccacaag ccaatctaag nggctctana 420
tngccccgac cgggattgta cnggtncctg aa 452
```

```
<210>      444
<211>      264
<212>      DNA
<213>      Zea mays
```

```
<400>      444
```

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cagaagggta aggtcggaat agtcctggac ttcaactggt acgaggctct tacaaactca 60
cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttgttgat 120
ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggctgccc 180
aggttcactc ctgagcaggc taaactggtg aagggtcggc cagactacat cggtatcaac 240
gagtacacat ccagctacat gaag 264
```

```
<210>      445
<211>      263
<212>      DNA
<213>      Zea mays
```

```
<400>      445
```

```
ggctatgaca cagggtcaaa tctcctcaa aggtgcacca gatgcgctgc tgggtgggaat 60
tcagcaaccg aaccttacat agttgctcat aattttctct tggcacatgc tactgcagtt 120
gcaagatacc gtacgaaata tcaggctgct cagaagggta aggtcggaat agtcctggac 180
ttcaactggt acgaggctct tacaaactca cctgatgacc aagcagcagc ccaaagagcc 240
agggacttcc acattggtgg ttt 263
```

```
<210>      446
<211>      297
<212>      DNA
<213>      Zea mays
```

```
<400>      446
```

gatgaccaag cagcagccca aagagccagg gacttocaca ttgggctggt ttgttgatcc 60
attgataaac ggacactatc cacagataat gcaagatctc gtgaaggaga ggctgcccag 120
gttcactcct gagcaggcta aactggtgaa gggctcggca gactacatcg gtatcaacga 180
gtacacatcc agctacatga aggggcagaa gctgggccag ctggcgccca gtagctactc 240
tgccgattgg cagttcaata tgtttttgca cgcaatggca aaccgattgg accacag 297

<210> 447
<211> 298
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(298)
<223> unsure at all n locations

<400> 447
cggacacnat ccacagataa tgcaagatct cgtgaaggag aggctgcccc ggttcactcc 60
tgagcaggct aaactggatga agggctcggc agactacatc ggtatcaacg agtacacatc 120
cagctacatg aaggggcaga agctgggtcca gctggcgccc agtagctact ctgccgattg 180
gcagggttcaa tatgtttttg cacgcaatgg caaaccgatt ggaccacagg cgaattctaa 240
gtggctctac atcgccccga cggggatgta cgggtgcgtg aatcacctcn aggagaag 298

<210> 448
<211> 301
<212> DNA
<213> Zea mays

<400> 448
cactcctgag caggctaaac tggatgaagg ctcggcagac tacatcggtg tcaacgagta 60
cacatccagc tacatgaagg ggcagaagct ggtccagctg gcgcccagta gctactctgc 120
cgattggcag gttcaatatg tttttgcacg caatggcaaa ccgattggac cacaggcgaa 180
ttctaagtgg ctctacatcg ccccgacggg gatgtacggg tgcgtgaact acctcaagga 240
gaagtatggg aatccaacga tctacataac ggagaacgga atggaccagc ctggaaactt 300
g 301

<210> 449
<211> 322

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<212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(322)
 <223> unsure at all n locations

 <400> 449

 tcggtatcaa cgagtacaca tccagctaca tgaaggggca gaagctgggc cagctggcgc 60
 ccagtagcta ctctgccgat tggcagggtc aatatgtttt tgcacgcant ggcaaaccga 120
 ttggaccaca ggccaattct aagtggctct acatcgcccc gacggggatg tacgggtgcg 180
 tgaactacct caaggagaag tatgggaatc caacgatcta catnacggag aacggaatgg 240
 accagcctgg aaattgaccc gagaccagta cctgcgcgac gccacgaggg tgcggttcta 300
 caggagtaca tcggccanct ga 322

<210> 450
 <211> 459
 <212> DNA
 <213> Zea mays

 <220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations

 <400> 450

 cangnnnnntc agaanggtna ggnccgaatt ttcngtact nnaactggta cgaggctctg 60
 nggaacngnc ctnatgacca agcannannc canagagccn gngacttcca cattggctgg 120
 nttgntgatc catngataaaa cggacactat ccacagatna tgcaagatct cgngaaggaa 180
 aggctgncca ngttcactcc tgagcaggct aaactgggtga agggctcggc agactacatc 240
 ggtatcaacg agtacacatc cagctncatg aaggggcaga agctgggtcca gctggcgccc 300
 antaactact ctgccnattg gcaagttcaa tatntnttng caccantng caaaaccnat 360
 tnntccaaca gcgaattcta agtgggggtct acatcacccc cgacaggngn tgtaccgggt 420
 gccttgaact accctnaaag ganaaagnat ngggaattc 459

<210> 451
 <211> 272
 <212> DNA
 <213> Zea mays

05976054-101501

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 451

gtcggaaatag tcctgggact tcaactggta cgaggctctt acaaactcac ctgatgacca 60
 agcagcagcc caaagagcca gggacttcca cattggctgg tttgttgatc cattgataaa 120
 cggacactat ccacagataa tgcaagatct cgtgaaggag aggctgcca ggttcactcc 180
 tgnncaggct aaactgggta agggctcggc agactacatc ggtatcaacg agtacacatc 240
 cagctacatg aaggggcaga agctgggtcca gc 272

<210> 452
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 452

gcgacgtcgg cgtaccaggc cgagggcgcc gcgtccacca acggccgagg cccctccacc 60
 tgggacgcgt tcgtgcacac ccaggaagc attgtatata atcagacggc agatgtcgca 120
 gtggatcaat atcatcgcta cagggaagat gtcgacctca tgaaaagttt gaattttgat 180
 gcctaccggt tttcaatctc atgggtccagg atcttcccag atggcgaggg aagagtcaat 240
 ccagaagggtg ttgcctatta caacaatctg ataaactacc tgcttcggaa aggcattaca 300
 ccgtacgcca atccttacca ttcccgattc tcccctcttg cgcttcaaga acaagtatgg 360
 gaggggtgggt taaatngcca agatggcgaa nactgttcac aagnctangc cgaacttccg 420
 gtttttaaaga ctttggggga accgtng 447

<210> 453
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 453

cgtacgaaat atcaggctgc tcagaagggt aaggctcgaa tagtcctgga cttcaactgg 60
 tacgaggctc ttacaaactc acctgatgac caagcagcag cccaaagagc cagggacttc 120

cacattggcg gtttgtgat ccattgataa acggacacta tccacagata atgcaagatc 180
tcgtgaagga gaggctgccc aggttcactc ctgagcaggc taaactggtg aagggtcgg 240
caga 244

<210> 454
<211> 258
<212> DNA
<213> Zea mays

<400> 454

gcaagatctc gtgaaggaga ggctgcccag gttcactcct gagcaggcta aactggtgaa 60
gggctcggca gactacatcg gtatcaacga gtacacatcc agctacatga aggggcagaa 120
gctggtccag ctggcgccca gtagctactc tgccgattgg caggttcaat atgtttttgc 180
acgcaatggc aaaccgattg gaccacaggc gaattctaag tggtctaca tcgccccgac 240
ggggatgtac ggggtcgt 258

<210> 455
<211> 263
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(263)
<223> unsure at all n locations

<400> 455

acggacacta tccacagata atgcaagatc tcgtgaagga gaggctgccc aggttcactc 60
ctgagcaggc taaactggtg aagggtcgg cagactacat cggatatcaac gagtacacat 120
ccagctacat gaaggggcag aagctggtcc agctggcgcc cagtagctac tctgccgatt 180
ggcaggttca atatgttttt gcacgcaatg gcaaaccgat tggaccacag gcgaattcta 240
agtggctcta catcgccccg ang 263

<210> 456
<211> 266
<212> DNA
<213> Zea mays

<400> 456

gcaaccgaac cttacatagt tgctcataat tttctcttgg cacatgctac tgcagttgca 60

agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 120
aactgggtacg agggctctta caaactcacc tgatgaccaa gcagcagccc aaagagccag 180
ggacttccac attggctggg ttgttgatcc attgataaac ggacactatc cacagatatg 240
cagatctcgt gaaggagagg ctgccc 266

<210> 457
<211> 231
<212> DNA
<213> Zea mays

<400> 457

agcgcgaaga tggcggactt gtttacagac tatgctgact tctgttttaa gacctacggc 60
gatcgcgtaa agcactgggt tacattcaat gagccaagga tagtagcgct acttggctat 120
gacacagggt caaatcctcc tcaaagggtgc accagatgcg ctgctgggtg gaattcagca 180
accgaacctt acatagttgc tcataatttt ctcttggcac atgctactgc a 231

<210> 458
<211> 248
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)... (248)
<223> unsure at all n locations

<400> 458

anctgggtcca gctggcgccc agtagctact ctgccgattg gcaggttcaa tatgtttttg 60
cacgcaatgg caaacggatt ggaccacagg cganttctaa gtggctctac atcgccccga 120
cggggatgta cgggtgctg aactacctca aggagaagta tgggaatcca acgatctaca 180
taacggagaa cggaatggac cagcctggaa acttgacctg agaccagtac ctgcgcgacg 240
ccacgagg 248

<210> 459
<211> 482
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)... (482)

<223> unsure at all n locations

<400> 459

gtggctctac atcgcccnnga cggggatgta cgggtgcgtg aactacctca aggagaagta 60
tgggaatcca acgatctaca taacggagaa cggaatggac cagcctggaa acttgacccg 120
agaccagtac ctgcgctacg ccacgagggg gcngttctac angagctaca tcggccagct 180
naagaaggcc atagacnagg gancgaannt ggnttgntac ttcgntntgg tctcttctcg 240
acaacttnga gtggctggca nnngtncctn gtttaangtt tggcattagt taccgtggac 300
ttnaanacgc tcgaacttca ccctaaaggc gtcnngntac tggttcaagg ganatgcttt 360
nataagcant tgagatcttt ngtangccna nctgaacacc ggnaagggtcc atttttnttt 420
aactttngcc taaatggtnn ggaatgggcc aatggtttaa anttcgggtt aatggcttgg 480
tt 482

<210> 460

<211> 223

<212> DNA

<213> Zea mays

<400> 460

ggtccagctg gcgcccagta gctactctgc cgattggcag gttcaatatg tttttgcacg 60
caatggcaaaa ccgattggac cacaggcgaa ttctaagtgg ctctacatcg ccccgaaagg 120
ggatgtacgg gtgcgtgaac tacctcaagg agaagtatgg gaatccaacg atctacataa 180
cggagaacgg aatggaccag cctggaaact tgacccgaga cca 223

<210> 461

<211> 274

<212> DNA

<213> Zea mays

<400> 461

aaaatggaga cgttgcagtg gatcaatacc atcgctacaa ggaagacgtc gatctcatga 60
aaagtttgaa ctttgatgcc taccggttct caatctcatg gtccaggatc ttcccgatg 120
gcgaagggaa agtcaatcca gaagggtgtag cgtattacaa taatttgata aactatctgc 180
ttcagcaagg catgactcct tacatcaacc ttaccacta tgatcttctt cttgcgcttg 240
agaagaaata tggaggggtg ttaagcgcgga agat 274

0995054.101501

<210> 462
<211> 196
<212> DNA
<213> Zea mays

<400> 462

cccaggttca ctctgagca ggctaaactg gtgaagggct cggcagacta catcggtatc 60
aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gccagtagc 120
tactctgccg attggcaggt tcaatatggt ttgcacgca atggcaaacc gattggacca 180
caggcgaatt ctaagt 196

<210> 463
<211> 184
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(184)
<223> unsure at all n locations

<400> 463

aganatatgg aggggtggta agcgcaaga tggcggactt gtttacagac tatgctgact 60
tctgttttaa gacctacggc gatcgcgtaa agcactgggt tacattcaat gagccaagga 120
tagtagcgct acttggctat gacacagggt caaatcctcc tcaaagggtgc accagatgcg 180
ctgg 184

<210> 464
<211> 192
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(192)
<223> unsure at all n locations

<400> 464

gaaggagagg ctgccaggt tcaactcctga gcaggctaaa ctggtgaagg gctcggcaga 60
ctacatcggt atcaacgagt acacatccag ctacatgaag gggcagaagc tgggtccagct 120
ggcgcccagt agctactctg ccgattggca ggttcaatat gtttttgac ncnatggcaa 180
accgattgga cc 192

<210> 465
 <211> 354
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(354)
 <223> unsure at all n locations

<400> 465

aaaaacatag gctgctcaga agggtaaggt cggaatagtc ctgganttca actggtacga 60
 ggctcttaca aactcacctg atgaccaagc agcaacncaa agagccaggg acttccacat 120
 tggctgggtt gtngatncat tgataaacgg acatatccnc agataatgca agatctcgtg 180
 aaggagaggt gccaggtnc acnctgagna ggctaaactg gtgaagggnn tnggnagact 240
 acatcgtntc acggagtaca cntcnagtac angaaggggc aaaactggtc cagtgnngcc 300
 cantagtact ntccngnttg gcaggntcat atgttgngat taatncttgt nttt 354

<210> 466
 <211> 266
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 466

cgcgcgctcg ttccccaagg ggttcgtgtt cgggacggcg acgtcggcgt accagggtcga 60
 gggcgccgcg tccaccaacg gccgcngccc ctccatctgg gattcantcg cgcacgtccc 120
 aggaaatatt gcagggaatc aaaatggaga cgttgcagtg gatcaatacc atcgtctaaa 180
 ggaagacgtc gatctcatga aaagtttgaa ctttgatgcc taccggttct caatctcatg 240
 gtccaggatc ttcccggatg gcgaag 266

<210> 467
 <211> 286
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(286)

09976054.101501

<223> unsure at all n locations

<400> 467

gnnaccgana cttacatagt tgcncataat tnnnctcntg gcacangcta ctgcngttgc 60
nagataccgt acganatatac aggetgctca gaagggttaag gtcggantag tcttggactt 120
naantgggtan gaggtcttta caaactcacc tgatnggccca agcagcagcc caaagagcca 180
gggacttcca cattggctgg tttgttgatc cattgataaa cggacactat ccacagataa 240
tgcaagatct cgtgaaggag aggetgcccc gggttactcc tgagca 286

<210> 468

<211> 351

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(351)

<223> unsure at all n locations

<400> 468

ggcggacttg ttacagact atgetgactn ctgttttaag acctacggcg atcgcgтана 60
gcactgggtnt acnttncaat gagccaagg naggaggcgt acttggctat gacacaggg 120
caaatcctcc tcaaagggtgc accagatgcg cngctgggtgg gattcngcna ccgaaccnta 180
catngttgct cataattntc ncttggcaca tgctactgtt ttgcaaganc cggacganaa 240
tcaggctgct cagaagggna ggtnngaata cccnggnttc cantgnctag gncgtnchnaa 300
tactgatga cnagcgagna gccnnaaagn cagggtctnn acattgcggn t 351

<210> 469

<211> 197

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(197)

<223> unsure at all n locations

<400> 469

ctttgatnac ctaccgggttc tcaatctcat ggtccaggat cttcccngat ggccaagggga 60
aagtcaatcc agaagggtgta gcgtattaca ataatttgat aaactatctg cttcagcaag 120
gcatgacncc cttacatcaa cctttaccac tatgatcntc ctcttgcgct tgagaagaaa 180

tatggagggg ggtaaag

197

<210> 470
<211> 245
<212> DNA
<213> Zea mays

<400> 470

cgctacaagg aagacgtcga tctcatgaaa agtttgaact ttgatgccta ccggttctca 60
atctcatggg ccaggatctt cccggatggc gaagggaaaag tcaatccaga aggtgtagcg 120
tattacaata atttgataaa ctatctgctt cagcaaggca tgactcctta catcaacctt 180
taccactatg atcttctctt tgcgcttgag aagaaatatg gaggggtgggt aagcggaag 240
atggc 245

<210> 471
<211> 166
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(166)
<223> unsure at all n locations

<400> 471

gnnncggttgc agtggatcaa taccatcgct acaaggaaga cgtcgatctc atgaaaagtt 60
tgaactttga tgccctaccg ttctcaatct catgggtccag gatctncccg gatggcggnag 120
ggaaagtcaa tccagaaggt gtagcgtatt acaataattt gataaaa 166

<210> 472
<211> 99
<212> DNA
<213> Zea mays

<400> 472

gcgtattaca ataatttgat aaactatctg cttcagcaag gcatgactcc ttacatcaac 60
ctttaccact atgatcttcc tcttgcgctt gagaagaaa 99

<210> 473
<211> 455
<212> DNA
<213> Zea mays

09976054-101501

<220>
 <221> unsure
 <222> (1)...(455)
 <223> unsure at all n locations

<400> 473

gaaaagtgtt aactttgatg cctaccggtt ctcaatctca tggncanga tctttccggn 60
 tggngaaagg aaangcaatc caaaaagggt aaccgnatta caataatttg gtaaaactatn 120
 tggtttaaca agggntgnaa ttcttanatt aaaccttacc cctattgaac tttccttttg 180
 cgccttgnaa agaaaatatn ggaggggtggg nttaancccc aaaaatggcg ggactttggt 240
 tacaggacta tgctgacttc tgggtttaag acctacggcg atcgcgtaaa gactgggtt 300
 tacattcaat gagccaagga tagtaaccgc tacttggtta tgacacangg tcaaactcct 360
 ctcaaangtg caccagatgc gctgctggtg ggaattcaag caaccgaac cttacataag 420
 ttgctcataa ttttctcttt tngggggcac atgct 455

<210> 474
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 474

ggccaagcta gtcaagggt catcaggtgt gaaattggta gccggtcttt cacaatgtct 60
 tgcattatct ttggatattg cccatttatt aatggatcaa gaaaccaacc aatatggaag 120
 tccctggccc tttgcgctgc tttttgatct tcagttgagt ttgtaaaagg ttcataaccag 180
 ttgaagtcaa gaactatccc gaccttgctt ttctgagttg cctgggtattt attgcggtat 240
 cttgcaactg cagtagcatg agataggaga atgttatgaa caacaatgta aggttctgtc 300
 gatgagttcc caccg 315

<210> 475
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 475

ctcatgctac tgtcagttgc aagataccgc aataaatacc aggcaactca nnaaggcaan 60
 gtcgggatnc ttcttgantt caactgggtat gaacctttta caaactcaac tgaagatcaa 120
 ancgcnccgc aaagggccag ggacttccat attggttggg ttcttgatcc attaataant 180
 gggcaatatc caagataat gcaagacatt gtgaaagacc ggctaccaag ttnnacacct 240
 gaacaggcca agctagtcaa gggctcatca gactatttcg ggatc 285

<210> 476
 <211> 327
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(327)
 <223> unsure at all n locations

<400> 476
 gtcgcgtaaa gtcgcgggtg cttgctcttc tgctagcngc agcagctcac cacgggtctgc 60
 tgccgtgccg acggcgcgat gctactgggc tcaaccggga gatctacgac gccggcgcg 120
 tgagcngccg cgcgttcccc gatggcttcg tctactggac ggctgcgtcg gcgtaccagg 180
 tcgaggggat ggccaagcac ggcgggcggg gccccagcat ctgggacgcc ttcatagagg 240
 ttcccgggac catccctaac aatgccaccg tgacgtgacg gtcgacgagt atcatcggt 300
 caaggaagat gtgaacataa tgaagaa 327

<210> 477
 <211> 180
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(180)
 <223> unsure at all n locations

<400> 477
 cgcggtgctt gctcttctgc tagcggcagn agctcaccac ggtctgctgc cgctgccgac 60
 ggcgcgatgc tactggctca acccgagat ctacgacgcc ggcgcgctga gccgcgcgc 120
 gttcccggat ggattcgtct tcgggacggc tgcgtcggcg taccaggteg aggggatggc 180

<210> 478
 <211> 434

0976054-101501

<212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(434)
 <223> unsure at all n locations

<400> 478
 ccctatagtn agtcgtatta aaagcgcggc ctgtgtctcc ggcccttgcc gcttccacag 60
 ggagtcgagg gccatgcatg agctccgtaa agctcgcggt gcttgcctta ctgctagcgg 120
 naggagctca ccacgggtctg ctgccgctgc cgacggcgcg atgctactgg ctcaaccgag 180
 agatctacga cgccggcgagg ctgagccgcc gcgcgttccc ggacagnttc gtcttcggga 240
 cggccggcgt cggcgtagca ggggtcgann ggatggccan gcacaggcgg ngcgggngcn 300
 ccangcatct gggangcctt catnggaggn tcctggganc agcccnaana ntgncaccnc 360
 ggnncgnnacg gtcnacgaat tatcagcggg ttcaanggna cgatgntnga gnnnnnggaaa 420
 gagcatgngg cttt 434

<210> 479
 <211> 233
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations

<400> 479
 cagacgctng gcgagnaatc atcgaagact tcaccgcgta cncagacgtg tncttccgga 60
 gcttcggcga aagggtgaag cactggatca cgggtgaacga gcccaacatc gagcccatcg 120
 gcggctacga ccaaggctac ctcccgccgc gccgctgctc ctaccggttt ggactgggag 180
 tcaatgcacc cacggcaact ccacgacgga nccgtagccg tcncccanca cct 233

<210> 480
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 480
 ctttattgca gaacgtgttg ggggtgcatgt tgtggagtgt gcttgtgtga ttgaattgcc 60

agagttaaag gggcgggaaa ggttgggaga caagtcgcta tttgtcttga ttaatggggg 120
 agcctgatct tttttccaag tgattgtgtt tttattagct ggctcttggt aggagcttta 180
 ttgatgactg cttagatttc cttagatac attttgatgc tgcggaaacg gaaagcgtgc 240
 tttgtttgag cgcgctcagt tctgctca 268

<210> 481
 <211> 227
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(227)
 <223> unsure at all n locations

<400> 481

aatgtttcaa gacataacga cattgttggt ggatcacaag gcgttttaaag acactgtcga 60
 cntttttgtc gatcgttaca gagacatggc acatttccgt tgttgccgga attgaggcta 120
 ggggggttcat gtttggtccc tcaattgcgt tgggcattgg tgcaaagttt gttccnttac 180
 gcaaacacgg aagctgcca gtgaagtaat ttcagnaaaa tatgctc 227

<210> 482
 <211> 259
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 482

cgactntcnt aagccaggaa tnttgnntna ggacataacc acgctgcttc nggatnccaa 60
 aggctttcaa agacaccatt gacntgtttg nngagaggta cagagatcaa aacatcaatg 120
 tngtcgcagg agttgaagct agaggcttta tatttggtcc acccagtgca ntaggcantg 180
 gagcaaaant tgtccccang agganacca anaaattgcc gggggngggt atcncagagg 240
 ggtatcnttg gnggagggga 259

<210> 483
 <211> 142
 <212> DNA
 <213> Glycine max

09976054.101501

<400> 483

aatggagatg catgtagggg ctgtacaacc tggagaacga gccttaatca tagatgatct 60
tattgccact gggggaacgt taggtgcagc aattaagctt ctagaacgtg ttgggggtgca 120
tgttgtggag tgtgctgtgt ga 142

<210> 484

<211> 270

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(270)

<223> unsure at all n locations

<400> 484

tttttctctc tgtactcaga ctcaactccc cacttattta tacantgtcg gcttacaaag 60
accaggatac ccgctcttcat ngcatcanan ctaaggtncg tgtcgteccc aatttcccca 120
gatccggaat tgaagctcga ggttttattt ttggtcctcc cattgcgctg gctataggag 180
caaagtttgt accattgagg aaaccaaagg agttgcctgg aaaagttatt tctcangaat 240
atattctgga atatggaagg gactgtcttg 270

<210> 485

<211> 247

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(247)

<223> unsure at all n locations

<400> 485

gactnttcna acataatacn nttnttcgn ttgtgnttgg ttgcgcacgc aagnacgtta 60
caataatggc ttcgaagnat tctcaacaag acacgcgctt agcgannatc gcctctgcaa 120
tccngtcat ccccgacttt cctaagccag ggnttttgtg ncaggacata accncgntgc 180
ttcttgntac naaggctttc naagacacca ttganttgn tgtnagagg tacagaganc 240
aaaacat 247

<210> 486

<211> 268
 <212> DNA
 <213> Glycine max

 <400> 486

 ttgatacaaa ggctttcaaa gacaccgttg acttgtttgt tgagaggtac agagatcaaa 60
 acatcaatgt tgtcgcagga gttgaagcaa ggggctttat atttggtcca cccattgcat 120
 tagctattgg agcaaaatth gtcccatga ggaaacccaa taaattgcct ggggaggtta 180
 tctcagaaga gtattctttg gagtatggaa cagacaaaat ggagatgcat gtaggggctg 240
 tacaacctgg agaacgagcc ttaatcat 268

<210> 487
 <211> 261
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 487

 ggtgctgaag tgggtggaatg tgcctgtgtc attggtgtgc ctgatgtcaa ggggcagtgc 60
 aggcgtattg gaaagccact ttatgttctt gttgagccgc gtaaagcaga taaatgttac 120
 ccagattgac atactaaagg acgctgggtg tgagnnacac aggccataat gtgatcctta 180
 agtttttaggc tgatggagtc gtgttcatgg caattgtcaa atatcatcct gggaaatgtt 240
 catcctgttt catatcttat c 261

<210> 488
 <211> 283
 <212> DNA
 <213> Glycine max

<400> 488

 gttcctttac gcaaaccacg gaagctgccca ggtgaagtaa tttcagaaaa atatgctcta 60
 gaatatggaa ctgattgctt ggagttgcat gttggtgctg cccagcccgg tgaacgggcc 120
 ataataattg atgacttggg ggcacaggt ggaactctgt cagcaggagt aaaacttcta 180
 gaacgtgttg gggctgaagt ggtggaatgt gctgtgtcat tgggtgtgccg atgtcaaggg 240
 gcatgcagga gtattggaaa gccactttat gttctgttga gcc 283

09054-1050
 1050-459460

<210> 489
 <211> 447
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 489

aaaggaacca accactcttt tctttcacccg atcatacata caatgtcgac ttacagagac 60
 gaggatcccc gtcttcatga catcaaaact aagattcgtg ttgtccctaa tttccccaaa 120
 cctggaattg aagctcgggg tttcattttt ggttctccca ttgtctggc aataggagca 180
 aagtttgtac cattgaggaa accaaaaaaa attgcctggc aaagttattt ctcaagagta 240
 tattctggaa tatggnanag actgtcttga gatgcatgtt ggggccgttg aacctggtga 300
 gcgtgcttta gtggttgatg atttgattgc cactggtgga actctctgtg cagccatggg 360
 cttactnana gcnaattggg aancanaggt nnttggnnnt ncgngtgtgt aattnaattg 420
 ccannanttt aaagggcgtn aannggg 447

<210> 490
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 490

gttcgccgaa gagaatggcc tcaagggaga cccagactc caagccattt cccaagccat 60
 cagagtcgtc cctcacttcc ccaaacatgg aataatgttc caagacataa cgacattgct 120
 gttggatcac aaggcgttta aagacaccgt cgacattttt gtcgatcgtt acagagacat 180
 gcacatttcc gtagttgctg gaattgaggc aaggggggtc atgtttggtc cctcaattgc 240
 gttgggcatt ggtgcaaagt ttgt 264

<210> 491
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 491
 ggagacccca gactccaanc catttcccaa gccatcagag tcgtccctca cttccccaaa 60
 catggaataa tgttccaaga cataacgaca ttggctgttg gatcacaagg cgtttaaaga 120
 caccgtcgac attnttgneg atcgntacag agacatgcac atttccgtag ttgctggaat 180
 tgaggcaagg gggtnecatgt ttggtccttc aattgcnttg ggcattggtg caaagtttgt 240
 tcctttacgc aaaccacgga a 261

<210> 492
 <211> 292
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(292)
 <223> unsure at all n locations

<400> 492
 aacgctcaaa ccattcctttt ctttcgctct tcttccattc cactactaaa agtaacngtt 60
 tcggagggaa acacaataca acacaaaaag cccccccac aaagcaaatac accttttttt 120
 tcctttcaaa atgttcgccg aagagaatgg cctcaaggga gacccagac tccaagccat 180
 ttccaagcc atcagagtcg tccctcactt ccccaaact ggaataatgt tccaagacat 240
 aacgacattg ctgttggtatc acaaggcgtt taaagacacc gtcgacattt tt 292

<210> 493
 <211> 262
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations

<400> 493
 aaccatcctt ttctttcgtt cttcttccat tccacactac anagtanatn anttcggagg 60
 gaaacacaat acaacacaaa aagccccccc cacaangcaa atcacctttt ttttctttt 120
 aaaatgttcg ccgaagagaa tggcctcaag ggagacccca gactccaagc catttcccaa 180
 gccatcagag tcgtccctca cttccccaaa catggaataa tgttccaaga cataacgaca 240

ttgctgttgg atcacaaggc gt

262

<210> 494
 <211> 306
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

 <400> 494

ctttcttttg ctcttcatcc attccacacc aaaaagtaac agtttcngtt tcggagggaa 60
 aacacaanac aaaaagcccc ctccccccaa agcaaatcac ctttttttct ttcagttatt 120
 caaaaaatgt tcgccgaaga gaatggactc aaggagagacc ctagactcca agccatttcc 180
 caagccatca gagtcgtccc tcacttcccc atacatggaa taatgtttcc agacataacg 240
 acattgttgt tggatcaciaa ggcgtttaaa gacactgtcg acatttttgt ngatcgttac 300
 agagac 306

<210> 495
 <211> 281
 <212> DNA
 <213> Glycine max

 <400> 495

atccattcca caccaaaaag taactccttt cagtttcgga gggaaacaca acacaaaaag 60
 cccctcccc ccaaagcaaa tacacctttt tttctttcag ttattcaaaa aatgttcgcc 120
 gaagagaatg gactcaaggg agaccctaga ctccaagcca tttccaagc catcagagtc 180
 gtcctcact tccccatata tggaataatg tttcaagaca taacgacatt gttgttggat 240
 cacaaggcgt ttaaagacat gtcgactttt tgtcgatcgt t 281

<210> 496
 <211> 287
 <212> DNA
 <213> Glycine max

 <400> 496

aaagctcaga cccaaacctt tcttttgctc ttcattccatt ccacacaaa aagtaacagt 60
 ttcagtttcg gagggaaaca caacacaaaa agccccctcc ccccaaagca aatcaccttt 120

ttttctttca gttattcaaa aaatgttcgc cgaaggaatg gactcaaggg agaccctaga 180
ctccaagcca tttcccaagc catcagagtc gtccctcact tccccataca tgggaataatg 240
tttcaagaca taacgacatt gttgttggat cacaaggcgt ttaaaga 287

<210> 497
<211> 269
<212> DNA
<213> Glycine max

<400> 497

caaagctcag acccaaacct ttcttttgct cttcatccat tccacaccaa aaagtaacac 60
cttcagtttc ggaggggaaac acaacacaaa aagccccctc cccccaagc aaatcacctt 120
tttttctttc agttattcaa aaaatgttcg ccgaagagaa tggactcaag ggagacccta 180
gactccaagc catttcccaa gccatcagag tcgtccctca cttcccata catggaataa 240
tgtttcaaga cataacgaca ttgttggtg 269

<210> 498
<211> 262
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 498

caacaagaca cgcgcttagc gagaatcgcc tctgcaatcc gagtcatccc cgactttcct 60
aagccaggaa ttttgtttca ggacataacc acgctgcttc tnaacacaaa ggctttcaaa 120
gacaccattg acttgtttgt ngagaggtac agagatcaaa acatcaatgt tgtcgcagga 180
gttgaagcta gaggctttat atttggtcca ccattgcat tagctattgg agcaaaattt 240
gtcccatga ggaaacccaa ta 262

<210> 499
<211> 268
<212> DNA
<213> Glycine max

<400> 499

gcttttctaaa ttctccaccc ctccgttcca ctgcttcgtc gcaacacgtt acaataatgg 60

cttcgaagaa ttctcaacaa gacacgcgct tagcgagaat cgctcttgca atccgagtca 120
 tccccgactt tcctaagcca ggaattttgt ttcaggacat aaccacgctg cttcttgata 180
 caaaggcttt caaagacacc attgacttgt ttgttgagag gtacagagat caaaacatca 240
 atgttgtcgc aggagttgaa gctagagg 268

<210> 500
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 500

gaagtgaaga gaatgcgggt tgtttggtgt tccaattcag gcgtgagtgc tttccctagt 60
 tgtcttagat tccctccact gatcgcaatt tcaacaacac cctcttcgat ccgctttcta 120
 aattctccac ccctcgttc cactgcttcg tcgcaacacg ttacaataat ggcttcgaag 180
 aattctcaac aagacacgcg ctttagcgaga atcgctctg caatccgagt catccccgac 240
 tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga taaaaaggct 300
 ttcaaagaca ccattgactt gtttggtgag aggtacagag atcaaaacat caatgttgtc 360
 gca 363

<210> 501
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 501

cccagattcc ctccactcat tgcaatttct tcgatccgct ttctaaattc cacaccctc 60
 cgttccactg cttcgccgcg acaagttaca agaatggctt cgaagaatgc tcaacaagac 120
 acgcgcttag ccagaatcgc ctctgcgatc cgagtcatcc ccgactttcc taagccagga 180
 attttgtttc aggacataac cacgctgctt cttgatacaa aggctttcaa agacaccgtt 240
 gacttgtttg ttgagaggta cagagatcaa aacatcaatg ttgtcg 286

<210> 502
 <211> 222
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (222)

09976054.10150.1

<223> unsure at all n locations

<400> 502

ttctaaattc tccacccctc cgttccactg cttcgtcgca anacgttaca ataatggctt 60
cgaagaattc tcaacaagac acgcgcttag cgagaatcgc ctctgcaatc cgagtcatcc 120
ccgactttcc taagccagga attttgtttc aggacataac cacgctgctt cttgatacaa 180
aggctttcaa agacaccatt gacttgtttg ttgagaggta ca 222

<210> 503

<211> 285

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(285)

<223> unsure at all n locations

<400> 503

tgccactctt ccacttttcc cttgtcccag attcncctcca ctcattgcaa tttcttcgat 60
ccgctttcta aattccacac ccctccgctt cactgcttcg ccgcgacaag ttacaagaat 120
ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgctctg cgatccgagt 180
catccccgac tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga 240
tacaaaggct ttcaaagaca ccgttgactt gtttggtgan cttcc 285

<210> 504

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(264)

<223> unsure at all n locations

<400> 504

tgccactctt ccacttttcc cttgtcccag attccctcca cttcattgca atttcttcga 60
tccgctttct aaatnccaca ccctccgctt ccnctgcttc gncgcgacaa gtttacnaga 120
atggcttcga agaatgctca acaagacacg cgcttancca gantcgctc tgcgatccga 180
gtcatccccg actttcctaa gccaggaatt ttgtttcagg acataaccac gctgcttctn 240
gatacaaagg ctttcaaaga cacg 264

09975054.101501

<210> 505
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(263)
<223> unsure at all n locations

<400> 505

caggcgtgag tgccactctt ccatctttcc ctgtgccag attcccncca ctcatngcna 60
ttncctcgat ccgntttcta aatnccacac ccctccgttc cactgcttcg ccgcgacaag 120
ttacaagaat ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgccctctg 180
cgatccgagn catccccgac ttctctaagc caggaatttt gtttcaggac ataaccncgc 240
tgcttcttga tacaaggct ttc 263

<210> 506
<211> 437
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(437)
<223> unsure at all n locations

<400> 506

aagacgacag aagggggaaa tgaaaaaagt gacangaant gangagaatg egggttgttt 60
gttgttccaa ttcangcgtt agtgctttcc ctagtgtgtc tanattccct ccactgatcg 120
caatttcaac aacaccctct tcgatccgcn ttctaaattc tccanccctc cgttccactg 180
cttcgtcgca acacgttaca ataatggctt cnangaattc tcaacaagga cacgcgctta 240
acgagaatcg cctctgcaat ccgagtcac cccgactttc ctaagccagg aattttgttt 300
cangacataa ccacgctgct tcttgatata aangctttca aangacacca ttgacttggtt 360
tgnttaanag gtacaagaga tnagtaacat caatgttggtc cccangagtt tgaanctaga 420
ggcnttaaaa tttgggg 437

<210> 507
<211> 271
<212> DNA

<213> Glycine max

<400> 507

gcggggttggt tgttggtcca attcaggcgt gagtgctttc cctagttgtc ttagattccc 60
tccactgata gcaatttcaa caacaccctc ttogatccgc tttctaaatt ctccaccctc 120
ccggttccact gcttcgtcgc aacagttaca ataatggctt cgaagaattc tcaacaagac 180
acgcgcttag cgagaatcgc ctctgcaatc cgagtcaccc ccgactttcc taagccagga 240
attttgtttc aggacataac cagctgctt c 271

<210> 508

<211> 228

<212> DNA

<213> Glycine max

<400> 508

gccactcttc catctttccc ttgtcccaga ttcctccac tcattgcaat ttcttcgatc 60
cgctttctaa attccacacc cctcgttcc actgcttcgc cgcgacaagt tacaagaatg 120
gcttcgagaa tgctcaacaa gacacgcgct tagccagaat cgctctgcg atccgagtca 180
tccccgactt tcctaagcca ggaattttgt ttcaggacat aaccacgt 228

<210> 509

<211> 335

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(335)

<223> unsure at all n locations

<400> 509

ttctctctgt actcaaactc acttccccac ttatttatac aatgtcggct taaaagacc 60
aggatacccg tcttcatggc atcaaaacta agattcgtgt cgtccccaat tccccaaat 120
ccggtattat gttccaagac attactactc tattgcttga tcccaaagca tttaaggaca 180
caatagattt gttcgttgag cgggtacaagg gcaaaaacat ttctggtggt gcagggnattg 240
aagctcgagg ttttattttt ggtcctccca ttgcgctggc tataggagca aagtttgtac 300
catgaggana ccaaagaagt tgctggaaag ttatt 335

<210> 510

<211> 462
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(462)
<223> unsure at all n locations

<400> 510

aactcccagc gcacangtaa cggtatcnga attcccggct cgaccacgc gtnaagtacg 60
gctgcnaaga cgacagaagg gganctctct tattgttggt ctcttcttct tttcttggtt 120
ccttttccat tcttcttttt ctctctgtac tcaaactcac ntccccactt anttatacaa 180
tgtcggctta naaanaccan gatacccgtc ttcattggcat caanactaat attcgtgtcg 240
tccccaattt ccccaaatcc ggtattatgt tccaagacat tactactcna ttgcttgatc 300
ccaaagcatt taaggacaca atagatttgt tcggtgancg gtanaagggc aaaaacattt 360
ctgttggtgc aggaattgaa gctcgagggt ttatttttgg tcnccccatt gcgctgggct 420
ataggganca gagttttgta cnattgagga aaccaangaa gt 462

<210> 511
<211> 251
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 511

cttttccatt cttcttttnc tctctgtact caaactcact tccccactta tttatacaat 60
gtcggcttac aaagaccagg ataccgtct tcatggcatc aaaactaaga ttcgtgtcgt 120
ccccaatttc cccaaatccg gtattatggt ccaagacatt actactctat tgcttgatcc 180
caaagcattt aaggacacaa tagatttgtt cgttgagcgg tacaagggca aaaacatttc 240
tggtgttgca g 251

<210> 512
<211> 281
<212> DNA
<213> Glycine max

<220>

<221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

<400> 512

```
ctctttcttct tttcttgtnt cctttttccat tcttcttttt ctctctgtac tcaaactcac   60
ttccccactt atttatacaa tgtcggctta caaagaccag gatacccgtc ttcatggcat  120
caaaactaag attcgtgtcg tccaatttc cccaaatccg gtattatgtt ccaagacatt  180
actactctat tgcttgatcc caaagcattt aaggacacaa tagatttggt cggtgagcgg  240
tacaagggca aaaacatttc tgttggtgca ggaattgaag c                        281
```

<210> 513
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 513

```
cttttattgc ttcttttccc attcttcac ttcttctctc tgaaccgtac tcaaactcca   60
ctttcccaact tatttataca atgtcggctt acaaagacca ggatccccgt cttcatggca  120
tcaaaactaa gattcgtgtc gtccccaatt tccccaaatc cgggtcttatg ttcttagaca  180
ttactactct attgcttgat cccaaagcat ttaaggactc aatagatttg ttcgtggagc  240
ggtacaaggg caaa                                                    254
```

<210> 514
 <211> 222
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(222)
 <223> unsure at all n locations

<400> 514

```
ctcgancnnc tttegaagcng cttcttcttt tcttntttcc ttttncattc ttctttttct   60
ctctgtacan aaactcactt ccacacttat taatanataa tnnngcttaca aagaccanga  120
tacccgctctt natggcatca aaactaatat tcgtgtcgtc cccaatttcc ccaaataccgg  180
tattatgttc caagacatta ctactctatt gcttgatccc aa                        222
```

<210> 515

09976054-101501

<211> 259
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

 <400> 515

 gttgttcttc tctttctttt ntngcttcct ttcccantct tcatcttctt ctcnctgaac 60
 cgtactcaaa ctcactttcc cacttattta tacaatgtcg gcttacaaag ancaggatcc 120
 ccgtcttcnt ggcntcaaaa ctaagattcg tgtcgtcccc aatttcccca aatccgggtct 180
 tatgttctta gacattacta ctctattgct tgatcccaaa gcattnaaag gatncnatag 240
 atttggtcgt gggagcgggt 259

<210> 516
 <211> 269
 <212> DNA
 <213> Glycine max

 <400> 516

 tgcattgatc tatgaatgat ggaaccacca caaacgaggt tgatgatcaa cgttttcata 60
 gtgagtttct tagcactact tgtgaacttg gtggtgggag tgctcggcgc tgataactat 120
 agcagagatg attttctctt tgactttggt ttcggttcag gaacctctgc ttatcagggtg 180
 gaaggagctg ctaacaaaga tggaagaact cctagcatct gggacacctt tgcctacgct 240
 ggatatgcc atggagaaaa tggagatgt 269

<210> 517
 <211> 287
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

 <400> 517

 caaatctgat canaaggcta cagnaagagc aattgacttc atgtatggat ggtttatgga 60
 tccattaaca tctggagant atcccaacag catgcgatca cttgtgagga caagnttanc 120
 naagtngnct ncngngcaat ccanactact tatngngttc attnnattnt cttggcctaa 180

09075054 "101501"

anctattact cnacancata tgcctctgac gnnctgntn naagcgaacc cgtcctagct 240
actnaacagn ttctctggtc actcngcat atggaacgtg ntgggga 287

<210> 518
<211> 261
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(261)
<223> unsure at all n locations

<400> 518

canntctgnt cannaggcta caganagagc aattgacttc atgtatggnt ggtnnatgga 60
tccattaana tctggagact atnccnncag catgceganca cttgtgngga caagattacc 120
anagtttntt gcagagcnat ccnaactacn tattgggttca ttngntntca ttagcctaaa 180
ctattactct acaacatatg cctctgacgc acctgatcta agcgaagccg tcctagctac 240
ttaacngatt ctcttgctcan t 261

<210> 519
<211> 250
<212> DNA
<213> Glycine max

<400> 519

tgttcttatg tggttatgaa tgtgcttctt ttaggaaaag caaaagggaa ggattgggat 60
cctcttgat tttgtttggt atgagcctct tacaagatca aaggctgaca attttgcagc 120
tcaaagagcc agagactttc atattggatg gtaaaaatct tagcatttgt taactgagga 180
tcctatattg caagtacaag tctttagtta tgaatgtgaa ttttccctg caaagacttt 240
cacacgcttg 250

<210> 520
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

09976054.101301

<400> 520
aaacatggag cttccactcc tagcacatca ngcactcttt gcactaagct tttgcatctc 60
aattttcttg gcatcgtgtg atgatgattt tctatccgtg aaaaagaatt caagttcatc 120
tccatttcct agcaactttc ttttnggaac tgcattctct tcatatcagt ttgaaggagc 180
ttacttgact gatggtaagg gactaaataa ctgggatgtt ttcactcata agccaggca 239

<210> 521
<211> 251
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 521
cttagagatg aagaatgtga tagacaagcc gtgaaaaggg cctnggcttt tggtgtagcc 60
tggtccttag atcccttggg ttttggtgag taccctccng agatgcactc tattctcggg 120
agtcagttgc caagattctc tcttgaggag aagagtctca taaaaggcag catagacttc 180
attggcatca ataactatgg aactctctat gccaaaggact gctccctcac tgcttgctct 240
cttggaacag a 251

<210> 522
<211> 246
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

<400> 522
aaaagattat gagcattatg ccantacntg cttcaaagct tttggagaca gagttaagca 60
ctggattacc ttcaatgagc ctcataactt tgcactccat gggtatgntt taggcattca 120
agcacaggaa gatgttcctt tttgggtcat cttctntgta agaaaggana atcatccact 180
gagccatata ttgttgctcn taacattctc ttgtcacatg ctgctgccta tagaagctac 240
caacta 246

<210> 523
 <211> 255
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

 <400> 523

 anatagtgt aataaatact caattatata tgattcacta tagtatTTTT aaataatgaa 60
 aaagaaaata tagtaaatgt ttatggcaaa ataaaaatag ggaggacttc cgtaactatg 120
 ctgacttttg cttcaagaca ttgggtgatc ggggtgaagca ctgggtaacc ctaaataaac 180
 catatggcta cagcgtgaat gggctacagt ggtggaagt tgcaccagg tagatgttct 240
 aactacgttg gaaaa 255

<210> 524
 <211> 272
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

 <400> 524

 gcaattcaac ngctgacaaa ttggctagcg aaagagcnag agcattcanc ttcaattggt 60
 tcttgaccc aatcatattc ggnaagtacc ctacagagat ggagaacgtt cttggaagcc 120
 tcttgcccaa attttccagc tacgaaaaag agaaactcaa gagaggattg gatttcattg 180
 gcgtcaatta ctacacggct ttctatgtcc aagattgcat gtactccgct tgtaaaccag 240
 gaccgggat ctccagaaca gagggttcat ac 272

<210> 525
 <211> 286
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

 <400> 525

<210> 528
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 528

caagtctcaa accatggcgt ttagaggagg cactatgttg atattaacaa tgatggcatt 60
 acttgagatt cagatatgct catcggagat aaaccgtgga aactttccaa atggcttcgt 120
 atttggcact gcctcttcag cttttcagta tgaaggggca gtgaaagaag acggaagggg 180
 accctctgtg tgggacactt tttcacatac ttttggcaaa ataattgatt tcagcaatgc 240
 tgatgttcg gtggatcagt accaccgata cgaagaagat 280

<210> 529
 <211> 259
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 529

cttaaaacca tttgtcacgc tggtacattg ggacctcca caagctcttg aagatgaata 60
 tanggggatt tctcaaacct gaaatagtgt aaataaatac tcaattatat atgattcact 120
 atagtatttt taaataatga aaaagaaaat atagtaaata tttatggaaa aataaaaata 180
 gggaggactt ccgtaactat gctgactttt gcttcaagac atttggatgat cgggtgaagc 240
 actgggtaac cctaaatga 259

<210> 530
 <211> 259
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 530

gggtttgcat ganaccacaa ggataaacta ttacaaaggc tatttgactc aactaaagaa 60
 agcagttgat gatggagcaa atgtgggttg ggaatttgca tggtcantgc ngggataaac 120

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ttgaatggaa gggtgggggtt acacatcaaa ggtttggcat gtctatgttg atttcaaaac 180
cctcaaggag atacccccaa gatgtcggca tactggttca agcaaactcc attacaaaaa 240
aggagtatta atagcnggg 259

<210> 531
<211> 256
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

<400> 531

caaccacatg tcacactaca caactgtgat cttccgcagg cacttgagga tgaatatgga 60
ggatgggtta gtcgtgatat cataaganac ttcacaaact atgcagatgt gtgttttaga 120
gagtttggtg atagantcca gtactggact actgtnaatg ancccaatgc ctttgccttg 180
ggtggctatg atcaaggaac ctcccctcct cagcgatgtt ctccccatt ttgcactaca 240
aacagcacta ggggca 256

<210> 532
<211> 272
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(272)
<223> unsure at all n locations

<400> 532

ggcattaagc agaatcataa tctttcatca catgcatcat atggcgcttc tacttgtcgc 60
tctcttggtt cttgttacta cattaccatc gggtactgtt ggagaagtgc tttcacccat 120
tctcgacgtt gcttctactga accgaaccag ttttcccaag ggctttangc nggggcagga 180
tccgcatcgt atcagtacga aggtggggca aacgaagtgg caaaggacca agtatatggg 240
atacctacca caaatatcca gataaaattg tg 272

<210> 533
<211> 240
<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(240)

<223> unsure at all n locations

<400> 533

tnaataccag actgagcagg ggggggaaat cggcattgtc ctacactgtg actcatttga 60

gccgttgagc aattccacag cagataaatt ggctactgaa agagcacaat cattcagcat 120

taattggatc ttggatccaa tcttatttgg taagtaccca aaagagatgg agatgattct 180

aggaaccacc ttacctaaat tttccagtaa tgacaaagca aaactgaggg caaggacgga 240

<210> 534

<211> 249

<212> DNA

<213> Glycine max

<400> 534

ggtgaatggg attcctacat gtgctgaccc agaccttctc aaagggataa tcagaggcca 60

gtgggggtcta gacggatata ttgtttcaga ttgtgattca gtggaagtct attacaatgc 120

aattcattac actgcaactc ctgaagatgc agtggctctt gcactgaaag cagggtttaa 180

catgaactgt ggcgattttc ttaaaaaata cactgcaaact gctgtaaact tgaaaaaagt 240

agatgtagc 249

<210> 535

<211> 437

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(437)

<223> unsure at all n locations

<400> 535

tacggctgcg anaagacgac agaagggtt cccaaaaagt ccacaaaaat actggttagca 60

ggaagtcatg ctaacaattt gggttatcaa tgtggaggat ggacaattac ctggcagggg 120

cttggtggca atgatctcac ttcaggtaca accatccttg atgctgtgaa acaaaccgtt 180

gatcctgccca ctgaagttgt cttcaatgaa aatcctgata agaactttgt caagtcatac 240

aaatttgact atgccattgt tgttgtggga gaacacactt atgccgaaac atttggtgac 300

agtttgaatc tgactatggc tgatcctggc ccaagtacca tcaccaatgt gtgtggggct 360
 attcnatgcc tagttgttcc tgtcactggc cgccantttg tgattaagcc atatctaacc 420
 aaaatcgatg cacttgg 437

<210> 536
 <211> 376
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(376)
 <223> unsure at all n locations
 <400> 536

agacgacaga anggagagat ggattgatga aaattcacat gccangctac ttcagctcga 60
 tcagcaaggg tgtggcaacc attatggcct cttactccan ttggaatgga gtaaaaatnc 120
 atgctcanca tgatcttatt actggcttcc tcaataatac tctccatttc aagggtttg 180
 tcanttcaga ttttgagggt cttgatagga tcacctctcc acctcgtgca aatatcactt 240
 attcaattta agcaggagtt tctgctggca ttgacatgtt catgggttnca aagcattnca 300
 canaattcat agatnttcta accatgttgg tgaaaaataa acacattccc atgagtcnaa 360
 ttgatgatnc antggg 376

<210> 537
 <211> 459
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations
 <400> 537

cttnaggaga ggggcccnngg ttattgagcc ccgncanttg tgaaaatant ttnccatnat 60
 ncccaaattt gnttcaagac ntttgagat tgannttana attggatnac ctttaatnga 120
 ccngtgtn gnggnnngtn ntggcnnnta ntannggttc tttngccctt gaaaaatnct 180
 caaaggattn tgggantngt ccagttggca actnaggcnc tgagcctacn ttgttgccca 240
 cantttgata ttgtcacatg cagctgctgt tcaaagatac cgagagaagt atcaagaaaa 300

gcaaaaggga aggattgggg atcctcttgg attttggttg gtatgagcct cttacaagat 360
 caaangcccg ncaatttanc acttaaanaa ncccanacct ttatgttnga ngggtcaatc 420
 attccccctg gttatgngag gggtccacca ncccnttta 459

<210> 538
 <211> 472
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(472)
 <223> unsure at all n locations
 <400> 538

cgacggccga cgcgtacgcc cacgcgtccg agaagtttct gttgatcant accatcgcta 60
 caaagaagat atngnncngg nggccagctn gaanggggat gcctaccggg tctcaatctc 120
 gtggtccaga atttttccaa atggaactgg ccaantaaan tggaaagggt tagcatacta 180
 caataggntg atcaattact tgctagaaaa aggtattact ccatatgcaa atctctacca 240
 ttatgatctt ctttancact tgaagagagg tacaacggat tattganccg gcaagntgtg 300
 aatgatttng caanattatg cagaatttng ntttnaagan ttntngaaga tagaattaaa 360
 aantngantg acgttnaaaa gaancctnaa gnagnagnt tgnatggcn aagaaaaang 420
 ggattntatn nccccggaa aaannnttaa aaagaatntn ggnaatagnc aa 472

<210> 539
 <211> 443
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations
 <400> 539

ggctttacaa cgtaccatgg ggcatgtaca aatcattgat gtacataaag gaacgttatg 60
 gaaacccaac tgtgntcnta tccgaaaatg gtaacattat atatcaattt cttgcttttt 120
 ctttttttg gcttggtgat tctgttgttt caatgtcatg tgacatattt tatgacatgt 180
 aggcatggat gatccgggta acgtgactct tcccaagggt ttgcatgaca ccacaaggat 240
 aaactattac aaaggctatt tgactcaact aaagaaggca gttgatgatg gagctaattg 300

ggttggatac tttgcatggt cattgctgga taactttgaa tggagggttg gttacacatc 360
aaggnttggc attgnctatg ttgatttcaa aaccctcaag agatacccta agatgtcagc 420
atactgggttc aagcaactca ttg 443

<210> 540
<211> 253
<212> DNA
<213> Glycine max

<400> 540

gctaattgtgg ttggatactt tgcattggtca ttgctggata actttgaatg gaggttgggt 60
tacacatcaa ggtttggcat tgtctatggt gatttcaaaa ccctcaagag ataccctaag 120
atgtcagcat actgggttcaa gcaactcatt gccaaaaaga agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcttc agataatcat gttttagtgg ttttggttga 240
gttaaaagta gtt 253

<210> 541
<211> 249
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(249)
<223> unsure at all n locations

<400> 541

ctaattgnggt tggatacttt gcntgggttca ttgctggata actttgaatg gaggttgggt 60
nacacatcan ggtttggcat tgtctatgtn gattncaaaa ccctcangan atancctaag 120
atgncagcat actggntcan gcaactcatt gccannnagn agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcatc agataatcat gttttagtgg ttttggttga 240
gttaaaagc 249

<210> 542
<211> 248
<212> DNA
<213> Glycine max

<400> 542

ttttttttgc cataaaagat cattttattc taagacttgc attaatcaag tcacatgatt 60

acagttacag aactactttt aactcaacca aaaccactaa aacatgatta tctgaagcaa 120
ctagaagctt agaaagtaga tggtcagccc agctattagt acttcttttt ggcaatgagt 180
tgcttgaacc agtatgctga catcttaggg tatctcttga gggttttgaa atcaacatag 240
acaatgcc 248

<210> 543
<211> 249
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(249)
<223> unsure at all n locations
<400> 543

ggagttcttg agagaaaacg gcgacaacga nagccgttcc gtctcgcgga gtgacttccc 60
tcccaacttc atcttcggag ttgccacttc tgcatatcag atagaagggtg cttgtaagga 120
gggtggtaga ggtcctagca tatgggatgc ctttacacac acggnaggaa aaattcttga 180
caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
natagccna 249

<210> 544
<211> 252
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(252)
<223> unsure at all n locations
<400> 544

ggagttcttg agagaaaacg gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc 60
tcccaacttc atcttcggag ttgccacttc tgcatatcag atagaagggtg cttgtaagga 120
gggtggtaga ggtcctagca tatgggatgc ctttacacac acggaaggaa aaattcttga 180
caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
atagccaagt tg 252

<210> 545

<211> 276
<212> DNA
<213> Glycine max

<400> 545

cggcgattga gagggagagt ttgagaatgg tgaagaagga ggagttcttg agagaaaacg 60
gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc tcccaacttc atcttcggag 120
ttgccacttc tgcataatcag atagaagggtg cttgtaagga ggggtggtaga ggtcctagca 180
tatgggatgc ctttacacac acggaaggaa aaattcttga caaaagcaat ggtgatgttg 240
cagttaatca tatcatcggg acatggaaga tattga 276

<210> 546
<211> 240
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(240)
<223> unsure at all n locations

<400> 546

agcngtgnaa aangctgcag aggcagcaca cgagctgtat tgatactacn ttgctgtacn 60
tcaatttcat gtccaaagt gtgatgaaat tgaagatgta atcagcagat ctcaatttcc 120
agaagggttc cttttcggaa caggcacttc ctcttaccag attgaaggag cgtattttga 180
agatggaaaag ggtttaagca attgggatgc ttttagtcat acaccaggan agataaaaaa 240

<210> 547
<211> 263
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(263)
<223> unsure at all n locations

<400> 547

ttttttgggt gcacatgctc tgccatcact aatcattgga acaaaatgaa aatgctgcag 60
aggcagctaa ganctgtatt gatactgttt tgctgtnttc aatttcatgt ccaaagtgtg 120
gatgaaattg aagatgtaat cagcagatct caatttccag aagggttcoct tttcgggaaca 180
ggcacttcoct cttaccagat tgaaggagcg tattttgaag atggaaaggg tttaagcnat 240

tgggagcttt tagtcataca cca

263

<210> 548
<211> 477
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(477)
<223> unsure at all n locations

<400> 548

ggaaggattg ggatcctctt ggattttgtt tggatgagc ctcttacaag atcaaaggcc 60
gacaatttag cagctcaaag agccagagac tttcatgttg gatggttcat tcatccctt 120
gtttatggag agtntccaac aaccattcaa aatattgttg ggaatagact ccccaaattc 180
actagtgaag aagttaaaat cgtgaaaggg ttcaatagat tttgttgga tnanccantt 240
tcntacgnct cnngtttgac cntttaaggc aaaacttaaa ncccangttt ttaangggct 300
tggaatcccg aattggtnnt ccaanaacgg ggtgnccatt tgnnccaagg ntttttttta 360
ttgggtttta acgnnccctg ggggggtgtt caaaaaattg gtgggcntaa aagggaccct 420
tttgggaaac cccccgngng gttnttccca aaaggggnng ggtnanaccc ggnaanc 477

<210> 549
<211> 402
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(402)
<223> unsure at all n locations

<400> 549

ggatgacgtt taacgaacct cgtgtggtgg ctgctcttgg ctatgataat ggtttctttg 60
cccctggaag atgctcaaaa gaatatggga attgtactgc tggcaactca ggcaactgagc 120
cttacattgt tgcccacaat ttgatattgt cgcattgcagc anctgttcaa agataccgag 180
cgaagtacca agaaaagcaa aagggaagga ttgggatcct cttggatttt gtttggtatg 240
agcctcttac aagatcaaag gctgacaatt ttgcagctca aagagccaga gactttcata 300
ttggatgggt cattcatccc cttgtttatg gagagtatcc aaaaaccatt caaaatattg 360

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ttgggaatan actccccaaa ntcactantt aagaanttta aa

402

<210> 550
<211> 473
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(473)
<223> unsure at all n locations

<400> 550

gtttaatgaa cctcgtgtgg tggtctctct tggctatgat aatggtttct ttgccccngg 60
aagatgctca aaagaatatg ggaattgtac agctggcaac tcaggcactg agccttacat 120
tggtgcccac aatttgatat tgtcacatgc agctgctggt caaagatacc gagagaagta 180
tcaagaaaag caaaagggaa ggattgggat cctcttggat tttgtttggg atgagcctct 240
tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc atgttggatg 300
gttcattcat ccccttggtt atggagagta tccaacaacc attcaaaata ttggtgggaa 360
tagactcccc aaattcacta gtgaaagaaa gttaaaatcc gtgaaagggg tcaatagaat 420
tttggtngga atcaanccat nttcttcgtc tacatgnatt aaacctatta aac 473

<210> 551
<211> 276
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 551

ctcaggcact gagccttaca ttgttgccca caatttgata ttntcgcatt cagcagctgt 60
tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 120
ttttgtttgg tatgagcctc ttacaagatc aaaggctgac aattttgcag ctcaaagagc 180
cagagacttt catattggat gggttcattca tccccttggt tatggagagt atccaaaaac 240
cattcaaaat attgttggga atagactccc caaatt 276

<210> 552
<211> 251

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<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 552

gtttaacgaa cctcgtgtgg tggetgctct tggetatgat aatggtttct ttgcccttg 60
aagatgctca aaagantatg ggaattgtac tgctggcaac tcaggcactg agccttacat 120
tgttgccac aatttgatat tgctgcatgc agcagctgtt caaagatacc gagcgaagta 180
ccaaganaag caaaaggga ggattgggat cctctgtaaa tttgtttggt atgagcctct 240
tacaagatca a 251

<210> 553
<211> 261
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(261)
<223> unsure at all n locations

<400> 553

acggattatt gngtcgcaa gttgtgaaag attttgcaga ttatgcagaa ttttgtttca 60
agacttttg agatagagtt aagaattgga tgacgtttaa cgaacctcgt gtggtggctg 120
ctcttggtta tgataatggt ttctttgccc ctggaagatg ctcaaaagaa tatgggaatt 180
gtactgctgg caactcaggc actgagcctt acattgttgc ccacaattga tattgtcgca 240
tgcagcagct gttcaaagat a 261

<210> 554
<211> 259
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(259)
<223> unsure at all n locations

<400> 554

cgaaaagcaa aagggaagga ttggnatcct cttggatttt ntttggatat agcctcttac 60

aagatcaaag gctgacaatt ttgcagctcc aaagagccca gagactttca tattggatgg 120
 ttcattcatc cccttgttta tggagagtat ccaaaaacca ttcaaatat tgttgggaat 180
 agactcccca aattcactag tgaagaagtt aaaatcgtga agggttcgat tgattttgtt 240
 ggaatcaacc agtatacta 259

<210> 555
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 555

gagagaagta tcaagaaaag caaaagggaa ggattgggat cctcttggat tttgtttggt 60
 atgagcctct tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc 120
 atgttggatg gttcattcat cccttgttt atggagagta tccaacaacc attcaaaata 180
 ttgttgggaa tagactcccc aaattcacta gtgaagaagt taaaatcgtg ag 232

<210> 556
 <211> 265
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(265)
 <223> unsure at all n locations

<400> 556

tttaacgaac ctctgtggtt ggctgctctt ggctatgata atggtttctt tgcccctgga 60
 agatgctcaa angaatatgg gaattgtact gctggcaact caggcactga gccttacatt 120
 gttgccaca atttgatatt gtccatgcag cagctgttca aagataccga gcgaagtacc 180
 aagaaaagca aaagggagg attgggatcc tcttggaattt gtttggatg agcctcttac 240
 aagatcaaag gctgacaatt tgcag 265

<210> 557
 <211> 256
 <212> DNA
 <213> Glycine max

<400> 557

tagagttaag aattggatga cgtttaacga acctcgtgtg gtggctgctc ttggctatga 60

taatggtttc ttgccccctg gaagatgctc aaaagaatat gggaattgta ctgctggcaa 120
 ctcaggcact gagccttaca ttgttgccca caatttgata ttgtcgcattg cagcagctgt 180
 tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 240
 ttttgtttg tatgag 256

<210> 558
 <211> 443
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(443)
 <223> unsure at all n locations
 <400> 558

aagacgacag aaggggggact ggaatgcagg atttgcttat gcaaagaatg gagtgcctat 60
 tggctcctaga gctaattctt attggcttta caatgtacca tggggcatgt acaaattcatt 120
 gatatacata aaggaacgtt atggaaaccc aactgttatc ttatctgaaa atggcatgga 180
 tgatccgggt aatgtgactc ttccaagggt tttgcatgac accacaagga taaactatta 240
 caaaggctat ttgactcaac taaagaaagc agttgatgat ggagcanatg tgggtgggta 300
 ctttgcatgg tcattgctgg ataactttga atggagggtg gggttacacat caagggttgg 360
 cattgtctat gttgatttca aaacccctca aganataccc naaagatntn tgggaannng 420
 gggtncance aatgncntta cca 443

<210> 559
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 559

aagacgacag aaggggatga tcctcatcaa tcaaaccta aagtcccagg ctatcaaagt 60
 gactggaatg caggatttgc ttatgcaaag aatggagtgc ctattggtcc tagagctaatt 120
 tcttattggc ttacaatgt accatggggc atgtacaaat cattgatata cataaaggaa 180
 cgttatggaa acccaactgt tatcttatct gaaaatggca tggatgatcc gggtaattgtg 240
 actcttccca agggtttgca tgacaccaca aggataaact attacaaagg ctatttgact 300
 caactaaaga aagcagttga tgatggagca aatgtgggtg ggtactttgc atggtcattg 360

ctggataact ttgaatggaa gtttgggtta cacatca

397

<210> 560
<211> 505
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(505)
<223> unsure at all n locations

<400> 560

ccgaatttcc ggcncgaccc acgcgtccgc ccacgcgtgc gcgctttctt taaccattan 60

gcgttttaaaa tantttctat acngtnnggt aacggggntc tttnggntcg gnttatntga 120

acattgaana tncaaagaac ggagtgccta ttggtccaan ggcttattct tattggntnt 180

acaacgtacc atggggcatg tncaaancat tgatgtacat aaaggaacgt tatggaaacc 240

caactgagat cttatccgaa aatggcatgg atgatccggg taacngnact cttaccaagg 300

gttttgcaat gacaccacaa ggatnaacta ttacaaaagc tattntgact caactaacga 360

aggcaattna nnattgagct aatgttngtt ggatactttg catcggtcan tgcttgata 420

aacttttgaa tngaannntg ggttaccnnt naanggtttg gcattaggct atgtttgatt 480

tcaaaacctt natnanaacc cctaa 505

<210> 561
<211> 247
<212> DNA
<213> Glycine max

<400> 561

ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt gcctattggt 60

cctagagcta attcttattg gctttacaat gtaccatggg gcatgtacaa atcattgata 120

tacataaagg aacgttatgg aaacccaact gttattttat ctgaaaatgg catggatgat 180

ccgggtaatg tgactcttcc caagggtttg catgacacca caaggataaa ctattacaaa 240

ggctatt 247

<210> 562
<211> 250
<212> DNA
<213> Glycine max

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<400> 562
aggctatcaa atggactgga atgcaggatt tgcttatgca aagaatggag tgcctattgg 60
tcctagagct aattcttatt ggctttacaa tgtaccatgg ggcattgtaca aatcattgat 120
atacataaag gaacgttatg gaaacccaac tggtatttta tctgaaaatg gcatggatga 180
tccgggtaat gtgactcttc ccaaggggtt gcatgacacc acaaggataa actattacaa 240
aggctatttg 250

<210> 563
<211> 451
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(451)
<223> unsure at all n locations

<400> 563
cgctttcttt aaccattatt gattaaaata ttttctatac atttccataa ctntctcttt 60
tggtttggtt tatatgaaca ttgaagatgc aaagaacgga gtgcctattg gtccaagggc 120
ttattcttat tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa 180
ggaacgttat ggaaacccaa ctgtgttctt atccgaaaat ggcatggatg atccgggtaa 240
cgtgactctt nccaaggggtt tgcattgacac cacaaggata aactattaca aaggctatct 300
gactcaacta aagaaggcag ttgatgatgg agctaattgtg gttggatact ttgcatggca 360
ttgntggata actttgaatg ganggtgggt tacacatnaa aggnntggca ttggctatgg 420
tgattcnaaa accctaagag aatnccttag a 451

<210> 564
<211> 394
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(394)
<223> unsure at all n locations

<400> 564
ttatatgaac nttgaagatg caaacaacgg aaagcctatt ggtccaaang cttattctta 60

ttngcnttac aacgtaccat ngggcatgtc aaatcattga tgcacataaa ngaacnntat 120
 ggaaacccaa ctgcgttctt atcccaaaat ggcatggatn atcccgntaa ccntnactnt 180
 toccaanggt ttgcatnaca ccacaaggat naactattan naaagctatt tgactcaact 240
 aaanaaagca nttgatgatn gancntaatg nngttingaaa cctttncatg gncanttgn 300
 tgganaactt taaanngagn ttgggttccc catcaagntt tggcaattnn ccatttntta 360
 atttnaaaaan cccttnanaa naaancctt aaaa 394

<210> 565
 <211> 232
 <212> DNA
 <213> Glycine max
 <400> 565

aatcaaccaa tatactacgt actacatgta tgatcctcat caagcaaaac ctaaagtccc 60
 aggctatcaa atggactgga atgcaggatt tgcttatgca aagaacggag tgcctattgg 120
 tccaagggct tattcttatt ggctttacaa cgtaccatgg ggcatgtaca aatcattgat 180
 gtacataaag gaacgttatg gaaacccaac tgtgttctta tccgaaaatg gc 232

<210> 566
 <211> 267
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(267)
 <223> unsure at all n locations
 <400> 566

aaccattcaa aatattgttg ggantagact ccccaaattc actagtgaag nagttaaata 60
 cgtgaagggt tcgattgatt ttgttggaat caaccagtat actacgttct tcatttatga 120
 tcctcatcaa tcaaaccta aagtcccagg ctatcaaag gactggaatg caggatttgc 180
 ttatgcanag aatggagtgc ctattggtcc tagagctaatt tcttattggc ttacaatgt 240
 accatggggc atgtacaaat cattgat 267

<210> 567
 <211> 257
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(257)
 <223> unsure at all n locations

<400> 567

gggaatagac tccccaaatt cactagtga gaagttaaaa tcgtgaaggg ttcgattgat 60
 tttgttgga tcaaccagta tactacgttc tntcatttat gatcctcatc aatcaaaacc 120
 taaagtccca ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt 180
 gcctantggg cctagagcta attcattattg gctttacaat gtacatggg gcatgtacaa 240
 atcattgnta tncataa 257

<210> 568
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 568

gaagaagtta aaatcgtga gggttcaata gattttgttg gaatcaacca atatactacg 60
 tactacatgt atgatcctca tcaagcaaaa cctaaagtcc caggctatca aatggactgg 120
 aatgcaggat ttgcttatgc aaagaacgga gtgcctattg gtccaagggc ttattcttat 180
 tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa ggaacgttat 240
 ggaaacccaa ctgtgttctt atccgaaaat ggcattgatg a 281

<210> 569
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 569

caaagaacgg agtgcctatt ggtccaaggg cttattctta ttggctttac aacgtaccat 60
 ggggcatgta caaatcattg atgtacataa aggaacgta tggaaacca actgtgttct 120
 tatccgaaaa tggcatggat gatcc 145

<210> 570
 <211> 402
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure

<222> (1)...(402)
 <223> unsure at all n locations
 <400> 570

aagacgacag aagggcagtg tacattaccg aaaatggcgt tgcggaatca aagaatgact 60
 cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat gatggccatc 120
 tcaaatccct gcttcatgcg atcaaagata gagttaatgt gaagggctac tatatatggg 180
 cattttcang atagctttga atgggatgct ggttacacag ctcgatttgg catcatatat 240
 gtggannaca agaacaattt gagtagatac cctaagtcct ctgcgttttg gctgaaaaca 300
 atgctgttac tgcgtttgcc aaatcaacat gatctentat agggtaaann antnngtncn 360
 ncannngnncn nngnaannag cggggggctc tanaaggatt ca 402

<210> 571
 <211> 268
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(268)
 <223> unsure at all n locations
 <400> 571

gtcaccatag tgactttctt ctttgaacca aaatctaata gtgatgctga tcncaggca 60
 gcaaggcgag ctctggactt tatgtttggc tggtttgcta atccattac atttggtgac 120
 tatcctgaga gtatgagatc tttagttggg tctagactcc ccacattcac caaagctcaa 180
 tctgaaagtc tcaaagggtc atatgatttt cttggtataa attcattaca cctcaaattt 240
 cgtggaatat gctccacca ccaccatt 268

<210> 572
 <211> 258
 <212> DNA
 <213> Glycine max
 <400> 572

gttggataa attattacac ctcaaatttc gtggaatatg ctccaccaac caccactaac 60
 aagacctatt ttcattggata tgctagccaa actttcttcg accaggaatg gtgtacccat 120
 tggcacaccg actcctctga gctggctctt tatctatccg gaggaattt ataagctcat 180
 gacatacata agggacaact acaataatcc accagtgtac attaccgaaa atggcgttgc 240

ggaatcaaag aatgactc 258

<210> 573
 <211> 185
 <212> DNA
 <213> Glycine max

<400> 573

caccagtgtg cattaccgaa aatggcggtg cggaatcaaa gaatgactca cttgcaatca 60

atgaagcccg aaaggatggt attcgaatta gataccatga tgggccatct caaatccctg 120

cttcatgcga tcaaagatag agttaatgtg aagggtact atatatgggc attttcagat 180

agctt 185

<210> 574
 <211> 163
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(163)
 <223> unsure at all n locations

<400> 574

ctaagggaca actacaataa tccaccagtg tacattaccg aaaatggcgt tgcggaatca 60

aagaatgact cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat 120

gatggccatc tcaaatccct gtttcatgga tcanagatag agt 163

<210> 575
 <211> 329
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(329)
 <223> unsure at all n locations

<400> 575

agcaatgaaa gcaataagtc cctccttctt ctgccttata attcttgtga cccttttngc 60

tggttagcatt gaaagtgcac cagcaaacgt gaagccaagc cattatgctg cacccttcaa 120

taggagtgtt tttcttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180

ggagcagcag ctatagatgg cagaggacca agtatatggg acacctatac taaacagcaa 240
ccagggaaga tttgggatca tagtgatgga agtctagcaa ttgattttta tcaccgggtac 300
aagagcgaca taaagatggt gaaagaagt 329

<210> 576
<211> 290
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(290)
<223> unsure at all n locations

<400> 576

gncaataagt ccctccttcc nctgccttat aattnttgtg acccttttgg ctggtagcat 60
tgaaagtgca ccagcaaacg tgaagccaag ccattatgct gcacccttca ataggagtgt 120
ttttccttct ggttttctat ttggaatagg ctctgcagct taccagatag aaggagcagc 180
agctatagat ggcagaggac caagtatatg ggacacctat actaaacagc aaccagggaa 240
gatttgggat catagtgatg gaagtctagc aattgatttt tatcaccggt 290

<210> 577
<211> 283
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(283)
<223> unsure at all n locations

<400> 577

gtccctcctt cctctgcctt ataattcttg tgaccctttt ngctggtagc attgaaagtg 60
caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120
ctggttttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
atggcagang accaagtata tgggacacct atactaaaca gcaaccaggg aagatttggg 240
atcatagtga tggaagtcta gcaattgatt nttatcacgg gta 283

<210> 578
<211> 284
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 578

gcaatgaaag caataagtcc ctccttcctc tgccttataa ttcttgtgac ccttttngct 60
 ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
 aggagtgttt ttccttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180
 ggagcagcag ctatagatgg cagaggacca agtatatggg acacctatac taaacagcaa 240
 ccagggaaga ttgggatcat agtgatggaa gtctagcatt gttt 284

<210> 579
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 579

gtccctcctt cctctgcctt ataattcttg tgaccctttt ggctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120
 ctggttttct atttggaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
 atggcagagg accaagtata tgggacacct atactnnnnc agcaaccagg gaagnttttg 240
 gatcatagat ggaagtctag caat 264

<210> 580
 <211> 226
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(226)
 <223> unsure at all n locations

<400> 580

gtccctcctt cctctgcctt ataattcttg tgaccctttt ngctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120

ctggttttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
atggcagagg accaagtata tgggacacct atactaaaca gcaacc 226

<210> 581
<211> 258
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(258)
<223> unsure at all n locations

<400> 581

gcaatgaaag caataagtcc ctcttctctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttccttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180
ggagcagcag ctatagatgg cagaggacca ngtnatggg acacctatac taaaacagca 240
accagggaag atttgga 258

<210> 582
<211> 255
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(255)
<223> unsure at all n locations

<400> 582

ataagtcctt ccttctctg ccttataatt cttgtgacct ttttngctgg tagcattgaa 60
agtgcaccag caaacgtgaa gccaaagccat tatgctgcac ccttcaatag gagtggtttt 120
ccttctgggtt ttctatttgg aataggctct gcagcttacc agatagaagg agcagcagct 180
atagatggca gaggaccaag tatatgggac actatactaa acagcaacca gggaagattt 240
gggatcatag tgatg 255

<210> 583
<211> 266
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 583

atgaaagcna taagtccctc cttcctctgc cttataattc ttgtgaccct tttngctggt 60
 agcattgaaa gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg 120
 agtggttttc cttctgtttt ctatttgga taggctctgc agcttaccag atagaaggag 180
 cngcagctat agatggcaga ggaccaagta tatgggacac ctatactaaa cagcaaccag 240
 ggaagatttg ggatcatagt gatgga 266

<210> 584
 <211> 275
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations

<400> 584

taagtctntc cttcctctgc cttatanttc ttgtgancct tttngtaggt agcattgaaa 60
 gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg agtggttttc 120
 cttctggttt tctatntggn ntaggctctg cagcttacca gatagaaggn gcagcagcta 180
 tagatggcag angaccaagt atntgggaca ccgatactna acagnaacag ggncnattgg 240
 gatcatngtg atggagncna gncaattgat tntnt 275

<210> 585
 <211> 223
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 585

gtccctcctt cctctgcctt ataattcttg tannccctant ngctggtagc attgaaagtg 60
 caccangcaa acgtgaagcc aagccattat gctgcaccct tcaataggag tggtttttcct 120

tctgggttttc tatttggaat aggctctgca gcttaccaga tagaagaggc agcagctata 180
gatggcagag gnccaagtat atgggacacc ttatactaaa cag 223

<210> 586
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 586

gcaatgaaag caataagtcc ctcttctctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttcctctggt tttctatttg gaataggctc tgcagcttac cagatagaag 180
gagcagcagc tatagatggc agagggacca agtatatggg acacctatac taaacagca 239

<210> 587
<211> 279
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(279)
<223> unsure at all n locations

<400> 587

atcctaaaaa catgcgagcn ctggtgggaa gtagattgcc taagttcacc aaatggcaag 60
ccaagctagt gaatgcatca ttgatttta ttggcttaaa ctattactcc totggttata 120
ttaatggtgt ccctccaagc aacgacaaac ccaattttct aacagattct cgcaccaaca 180
cttcatttga acgcaatgga agacccttag gtctaagggc cgcttcagtt tggatatact 240
tttatccaag gggacttcta gatcttctgt tatatacca 279

<210> 588
<211> 258
<212> DNA
<213> Glycine max

<400> 588

ctaaaaacat gcgagccctg gtgggaagta gattgcctaa gttcaccaaa tggcaagcca 60

agctagtga tggatcattt gattttattg gcttaaacta ttactcctct ggttatatta 120
atggtgtccc tccaagcaac gacaaacca attttctaac agattctcgc accaacaactt 180
catttgaacg caatggaaga cccctaggtc taagggccgc ttcagtttgg atatactttt 240
atccaagggg acttctag 258

<210> 589
<211> 278
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations

<400> 589

gnntgggaac cattaacaaa aggagagtat cctaaaaaca tgcgagccct ggtgggaagt 60
agattgccta agttcaccaa atgggcaagc cnagctagt aatggatcat ttgattttat 120
tggcttaaac tattactcct ctggttatat taatggtgtc cctccaagca acgacaaacc 180
caattttcta acagattctc gcaccaacac ttcatttgaa cgcnatggaa gacccctagg 240
tctaagggcc gcttcagttt ggatatactt ttatccaa 278

<210> 590
<211> 266
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 590

ataatatggc atttaaaggc tatttcgttt tggggcctca tagctcttgt tgtcgttggc 60
acttccaaag ttacatgcga aatagaagca gataaagttt cacctattat tgacttttcc 120
ctcaatcgga acagtttccc tgaaggcttc atctttgggg cggcacatn cctcctacca 180
gttcgaaggc gcagcanagg aaggtggtag aggaccaagt gtatgggata cttcacccat 240
aaatntccag ataagatcaa ggatgg 266

<210> 591

0976054-101501

<211> 281
 <212> DNA
 <213> Glycine max

<400> 591

gatccttgaa tagatcacat aacatgggca tcattgggca tgcaacacgt ttattgtag 60
 cagcacgtta agatcagttg ttactcgtgc ggaaccacct aaacctgggc ctcttttcga 120
 tcttagttca ttcaatcgcc acagctttcc ggcaggcttc actttcgggg catcatcttc 180
 cgcgtaccag tttgaagggtg cggcaaaaga atatggtaga ggaccaagta tatgggatac 240
 tttcatcaat caacatccag taagatagca gatggaacga a 281

<210> 592
 <211> 429
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(429)
 <223> unsure at all n locations

<400> 592

ccangattan tgccattttg tgggttggtt atcccgggca agctggggga actgccattg 60
 ctgatgtant cnttggtaca actaaccag gangaagggtt acccatgaca tggtaaccac 120
 aaggttactt ggccaaagtg cccatgacaa acatggacat gcgtccaaac ccaacaacan 180
 ggtaccaag aagaacctat agattctaca aangtcctgt antgttccca ttccggacatg 240
 gcctaagtta ctcaanattc anccacagct tancacttgc ccccaaagag gtctcagtg 300
 ccataatgag cctccaagcc ttgacaaact caaccctctc aagcaaagca nttaangtga 360
 gccatgcaa ttctgatgac tcattggaga tgganttcca cgttgatgtn aaaaaccaan 420
 gctcaatgg 429

<210> 593
 <211> 281
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

<400> 593

caaaatacat cataagatat ggcattcgac gcttatttcc ttttgggcct catagctctt 60
 gttcttggtta gcacttccaa agttacatgc gncntagaag cagatacagt ttcacctgtt 120
 attgacattt cactcaaccg gaacagnntc cagaaggggt catctttggg gcgggatctt 180
 cctcgtacca gttcgaaggt gcagcaaag atggtggtag aggaccaagc gtatgggata 240
 ccttcaccca taattatcct ggtaagatca ttgatagaac a 281

<210> 594
 <211> 271
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 594
 taagatatgg cattcgacgc ttatttcctt ttgggcctca tagctcttgt tcttggttagc 60
 acttccaaag ttanatgcgn antagaagca gatacagttt cacctgttat tgacatttca 120
 ctcaaccgga acagnntcca gaaggggttca tctttggggc gggatcttcc tcgtaccagt 180
 tcgaagggtgc agcaaagat ggtggttagag gaccaagcgt atgggatacc ttcaccata 240
 attatcctgg taagatcatt gatagaagca a 271

<210> 595
 <211> 253
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 595
 aaaaacatat cacacaatat ggcattcaag ggctatttcc ttctcggcct cgttactctt 60
 gttcttggtta aatcttccaa agttacatgc gaancnagaa tcggttaata cagtttcacc 120
 cattattgac atttcactca atcggaagag nttcccagaa ggggttcatat ttggggcggg 180
 atcttcctcg taccagttcg aaggggcagc aaaggaaggt ggtagaggac caagtgtatg 240
 ggataccttc acc 253

09976054-101501

<210> 596
 <211> 284
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 596

gaaaaacata tcacacaata tggntattcaa gggntatttc cttctgcggc ntcgttactc 60
 ttgttcttng ntaaattcttc caaagttaca tgccgaancc gaatcagtta atacagtttc 120
 acccattatt gacatttgca ctcaatcgga agagnnttcc cagaaggggt catatttggg 180
 gcgggatctt ccgcgtacca gttcgaaggg gcagcaaagg aaggtaggttag aggaccaagt 240
 gtatgggata ccttgcaccc ataattatcc aggaaagatc atgg 284

<210> 597
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 597

gtaagaaagg aaaatcatcc actgagccat acattgttgc tcataacatt ctcttgtcac 60
 atgctgctgc ctatagaagc taccaactac atttcaagga acaacaagga ggtcaaatag 120
 gaatagcact agatgtcatt tggtagaac ctataacaga acttgatgaa gacaaagacg 180
 cagcagcaag agctatggac ttttcaactg gatggttcct tgaccactt ttctttggaa 240
 aatatcctct ctcaatggag aaactttag ctaagagatt gccggagatt tctgatacag 300
 cctcaaaatt tcttgtggga tctttggatt ttattggcat aaatcactac acctcagtct 360
 atactcgtaa cgacagga 378

<210> 598
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 598

accaactaca tttcaaggaa caacaaggag gtcaaataagg aatagcacta gatgtcattt 60
 ggtatgaacc tataacagaa cttgatgaag acaaagacgc agcagcaaga gctatggact 120

tttcacttgg atggttcctt gaccacttt tctttggaaa atatcctctc tcaatggaga 180
aacttgtagc taagagattg ccggagattt ctgatacagc ctcaaaattt cttgtgggat 240
ctttggattt t 251

<210> 599
<211> 252
<212> DNA
<213> Glycine max

<400> 599

tatcatcggg acatggaaga tattgatctt atagccaagt tgggatttga tgcttataga 60
ttttcaattt cttggtctcg gattttcccc gatggcttag gaacgaaaat caatgacgaa 120
gggataactt tttataacaa cattattaat ggtcttcttg aaagaggat acaaccttat 180
gtaactttgt accattggga tcttccgctg catcttcacg agtcgatggg aggatgggta 240
aataaacaaa tc 252

<210> 600
<211> 418
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(418)
<223> unsure at all n locations
<400> 600

agaacactcc attgttgaca ttgagaagag aagagaagcn ggagaatgca atgggggctt 60
tgtacatgtc agttatggag atactcttgt tcctcttcat attcatatgc tctctcacac 120
caatctcaca gtcacaggga ttacatcaat ctcccccttt tctctttggc acttcttctt 180
cttcgtacca gtatgaagga gcttatttga gtgatggcaa agggataagc aactgggatg 240
tcttactca caaaccagggt agtatatctg acgaaagcaa cggatgatgtt gctgttgatc 300
aataccaccg gtatctggag gatattgatc taatggaagc tataaaagggt caatagctac 360
cggttttcaa tatcatgggc aagaattcta ccaaaaggaa gatttggaga agtaaact 418

<210> 601
<211> 278
<212> DNA
<213> Glycine max

09975054.10150.1

<400> 601
 ttcatatgct ctctcacacc aatctcacag tcacagggat tacatcaatc tccccctttt 60
 ctctttggca cttcttcttc ttctgtaccag tatgaaggag cttatttgag tgatggcaaa 120
 gggataagca actgggatgt cttcactcac aaaccaggta gtatatctga cgaaagcaac 180
 ggtgatgttg ctgttgatca ataccaccgg tatctggagg atattgatct aatggaagct 240
 ataaaagtca atagctaccg gttttcaata tcatgggc 278

<210> 602
 <211> 426
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations

<400> 602
 aaacgacaga aggggatcga agcaaaaaat gaaaacccaa agtgcttctc tcctctgtct 60
 ttttctctct cttgctatcc ttttggctag tggcactgct gcaagtgcaa ctccaagaag 120
 cgcagtgcc aagccaccatg tttcaacatt caacagaagc ctttttcctt ccaacttttct 180
 ctttggaatt ggttcttctg cttaccaggc agaaggagca gcaagtgtag atgggagagg 240
 accaagcata tgggacacct aacttagaca gcatactgaa aagatttggg atcatagcac 300
 cggtgacatg ggaactgant tttatcatcc atacaagggg tgacataaaa attagcgaag 360
 gaaanttggg ctggactcct tcanattccc caactcaang gtcaagaata ttcccaaaag 420
 ggcaag 426

<210> 603
 <211> 425
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(425)
 <223> unsure at all n locations

<400> 603
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 ttttctctc tcttgctatc cttttggcta gtggcactgc tgcaagtgca actccaagaa 120

gcgcagtgcc aagccacccat gtttcaacat tcaacagaag cctttttcct tccacttttc 180
tctttggaat tgggtcttct gcttaccagg cagaaggagc agcaagtgtg ggtgggagag 240
gaccaagcat atgggacacc ggacacnagg acagcatact gaaaagattt gggatcatag 300
caccggtgac atgggaagtg aattttaagc anccgagnca anggttacat nanaattgcg 360
aaaggnantt gggccgggac cctttnanat tccnnaagnt cagggggcaa gaatatgccg 420
aaagg 425

<210> 604
<211> 270
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 604
gcggattttc gtggctacgc aaacttctgc ttcaagacct ttggagacag agtcaaatat 60
tgggtcactt tgaatgaacc cttatcattt agtctcaatg gctacaatgg tggcaccttt 120
ggcaccaggc agatgttcaa atacgttgcc aattgtagtg ctggcgattc atccactgaa 180
ccctatatcg ttggacacta cttattactt gencatgaat ctgctgccac attatacaag 240
acaaatatca ggctcgtcaa aaaggacaat 270

<210> 605
<211> 338
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(338)
<223> unsure at all n locations

<400> 605
tgaaaaccca aagtgttct ctctctgtc ttttctctc tottgetatc cttttggcta 60
gtncgcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120
ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240

cagcatactg aaaagatttg ggatcatagc accggtgaca tgggagctga tttttatcat 300
cgatacaagg gtgacataaa aatagcgaaa gaaattgg 338

<210> 606
<211> 324
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(324)
<223> unsure at all n locations

<400> 606

aaaaatgana acccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60
ggctagtngg cactgctgca agtgcaatcc aagaagcgca gtgccaagcc accatgtttc 120
aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt cttctgctta 180
ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240
tagacagcat actgaaaaga tttgggatca tagcaccggt gacatgggag ctgattttat 300
catcgataca agggtgacat aaaa 324

<210> 607
<211> 243
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(243)
<223> unsure at all n locations

<400> 607

caccggtgac atgggagctg atttttatca tcgatacaag ggtgacataa aaatagcgaa 60
agaaattngg gctgtactct ttcagattct nctatctcat ggtcaagaat attcccaaag 120
ggcaagggag cagttaaccc ccttgggggtt aaattctaca acaatgtcat cgatgagatc 180
ctagcaaatg gtttaaaacc ttttgtcact ctttttcatt gggactttcc acaagctctt 240
gaa 243

<210> 608
<211> 300
<212> DNA
<213> Glycine max

[illegible]

gatagcaaga	gagaganaaaa	gacagaggag	agangcactg	ctgcaagtgc	aactccaaga	60
agcgcagtgc	caagccacca	tgtttcaaca	ttcaacagaa	gcctttttcc	ttccactttt	120
ctctttggan	ttggttcttc	tgcttaccag	gcagaaggag	cagcaagtgt	agatgggaga	180
ggaccaagca	tatgggacac	ctacactaga	cagcactactg	aaaagatttg	ggatcatagc	240
accggtgaca	tgggagctga	tttttatcat	cgatacaagg	gtgataaaaa	tagcgaaaga	300

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<220>
<221>      unsure
<222>      (1)...(253)
<223>      unsure at all n locations
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gnggcactgc	tgcaagtgc	actccaagaa	gcgcagtgcc	aagccaccat	gtttcaacat	60
tcaacagaag	cctttttcct	tccacttttc	tctttggaat	tggttcttct	gcttaccagg	120
cagaaggagc	agcaagtgt	gatgggagag	gaccaagcat	atgggacacc	tacactagac	180
agcatactga	aaagatttgg	gatcatagca	ccggtgacat	gggagctgat	ttttatcatc	240
gatacaaggg	tga					253

<400> 610

239

tagacagcat actgaaaaga tttgggatca tagcaccggt gacatgggag c 291

<210> 611
 <211> 286
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations
 <400> 611

ccaaagtgct tctctcctct gtctttttct ctctcttgct atccttttgg ctagtngcag 60
 tgctgcaagt gcaactccaa gaagcgcagt gccaaagccac catgtttcaa cattcaacag 120
 aagccttttt ccttccactt ttctcttttg anttggttct tctgcttacc aggcagaagg 180
 agcagcaagt gtagatggga gaggaccaag catatgggac acctacacta gacagcatac 240
 tgaaaagatt tgggatcata gcaccggtga catgggagct gatttt 286

<210> 612
 <211> 246
 <212> DNA
 <213> Glycine max
 <400> 612

agatgttcta aatacgttgc caattgtagt gctggcgatt catccactga accctatata 60
 gttggacact acttattact tgctcatgaa tctgctgcca cattatacaa gacaaaatat 120
 caggctcgtc aaaaaggaca aattgggatc actaatccaa cacactactt tttgccaaaa 180
 tctcaaagtg ctgcagatta caaggcagca agtagagctc tgggctcttc tttggttggt 240
 attctg 246

<210> 613
 <211> 285
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations
 <400> 613

ccaaagtgct tctctcctct gtctttttct ctctcttgct atccttttgg ctagtncgca 60

ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttccact tttctctttg ganttggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg ngaggaccaa gcatatggga cacctacact agacagcata 240
ctgaaaagat ttgggatcat agcaccggtg acatgggagc tgatt 285

<210> 614
<211> 286
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(286)
<223> unsure at all n locations
<400> 614

caaaaaatga aaaccctaaag tgcttctctc ctctgtcttt ttctctctct tgctatcctt 60
ttggctagtn cgactgctg caagtgaac tccaagaagc gcagtgccaa gccaccatgt 120
ttcaacattc aacagaagcc tttttccttc cacttttctc tttggaattg gttcttctgc 180
ttaccaggca gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta 240
cactagacag catactgaaa agatttggga tcatagcacc ggtgac 286

<210> 615
<211> 186
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(186)
<223> unsure at all n locations
<400> 615

caaacttctg cttcaagacc tttggagaca gagtcaaata ttgggtcact ttgaatgaac 60
cctatcattt agtcctcaat ggctacaatg gtggcacctt tgcaccaggt agatgttcta 120
aataacgttg ccaattgtag tgctggcgat tcatccactg anccctannt nnttggacac 180
tactta 186

<210> 616
<211> 278
<212> DNA

0976054.101501

<213> Glycine max

<220>

<221> unsure

<222> (1)...(278)

<223> unsure at all n locations

<400> 616

gaaaacccaa agtgcttctc tcctctgtct tttctctgctc tgcttgctat ccttttggct 60
agtngcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120
ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
cagcatactg aaaagatttg ggatcatagc accggtga 278

<210> 617

<211> 277

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(277)

<223> unsure at all n locations

<400> 617

cccaaagtgc ttctctctc tgtctttttc tctctcttgc tatecttttg gctagtngca 60
ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
gaagcntttt tccttccact tttctctttg gtgttggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatgng agaggaccaa gcatatggga cacctacact agacagcata 240
ctgaaaagga tttgggatca tagcacgggt gacatgg 277

<210> 618

<211> 277

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(277)

<223> unsure at all n locations

<400> 618

gaaaacccaa agtgcttctc tcctctgtct tttctctctc cttgctatcc ttttggctag 60

tngcactgct gcaagtgcaa ctccaagaag cgcagtgcc a gccaccatg tttcaacatt 120
 caacagaagc ctttttctctn ccacttttct ctttggaatt gggtttctctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgggacacct aactagaca 240
 gcatactgaa aagattggga tcatagcacc ggtgaca 277

<210> 619
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations
 <400> 619

aaatgaaaac ccaaagtgtc tctctctctc gtctttttct ctctcttgct atctttttgg 60
 ctagtngcac tgctgcaagt gcaactccaa gaagcgcagt gccaaagcac catgttcaac 120
 attcaacaga agcctttttc cttccacttt tctctttgga cttgggttctt ctgcttacca 180
 ggcagaagga gcagcaagtg tagatgggag aggaccaagc atatgggaca cctacactag 240
 acagcatant gaaaagattg gggntcatan c 271

<210> 620
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations
 <400> 620

cccaaagtgc ttctctctc tgtctttttc tctctcttgc tctcttttg gctagtngca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tcttccact tttctctttg gaattgggtc ttctgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 ctgaaaagat ttggg 255

<210> 621
 <211> 260

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<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations
 <400> 621
 aaaacccaaa gtgcttctct cctctgtctt tttctctctc ttgtatctct tttggctagt 60
 ngcactgctg caagtgcaac tccaagaagc gcagtgccaa gccaccatgt ttcaacattc 120
 aacagaagcc tttttccttc cacttttctc tttggaattg gttcttctgc ttaccaggca 180
 gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta cactagacag 240
 catactgaaa agatttgga 260

<210> 622
 <211> 261
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations
 <400> 622
 aaatgaaaac ccaaagtgtc tctctcctct gtcttttctc ctctcttgct atctttttgg 60
 ctagtngcac tgctgcaagt gcaactncca agaagcgag tgccaagcca ccatgtttca 120
 acattcaaca gaagcctttt tccttccact tttctctttg ganttggttc ttctgcttac 180
 caggcagaag gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact 240
 agacagcata ctgaaaagat t 261

<210> 623
 <211> 279
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations
 <400> 623
 tgaatgaacc cttatcnttt agtctcaatg ggctacnatg gtggcacctt tgcaccaggt 60

agatgttcna aatancgttg caattggtag tgnntgggna ttaatcnatt gaaccaata 120
 ncgttggcca ctacttatta cttgctcatn aatctgctgc cacattatnc aagacaaaat 180
 atcaggcncg tcaaaaagga caaattggga tcactaatcc aacacactac tttttgcca 240
 aatctcaaag tgctgcagat tacaaggcag caagtagag 279

<210> 624
 <211> 255
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 624

tgaaaacca aagtgttct ctcctctgtc tttttctctc tcttgctatc ctttnggcta 60
 gtngcactgc tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggaat tggttcttct gtttaccagg 180
 cagaaggagc agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcatactga aaaga 255

<210> 625
 <211> 254
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(254)
 <223> unsure at all n locations

<400> 625

agtgttctc tctctgtct ttttctctct cttgctatcc ttttggctag tngcactgct 60
 gcaagtgcaa ctccaagaag gcgcagtgcc agccaccatg tttcaacatt caacagaagc 120
 ctttttctct cacttttct ctttggantt ggttcttctg cttaccaggc agaaggagca 180
 gcaagtgtag atgggagagg accaagcata tgggacacct acactagaca gcatactgaa 240
 aagatttggg atca 254

<210> 626

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<211> 264
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

 <400> 626

 gttctaggct cccaaaattc acaaaagctg aatctgaagg tctaaaaaat tccatagatt 60
 ttccttggtg tgaattacta caccacttat tatgcggaac atgetgaacc tgtcagtgcc 120
 aaccgaacct tctacacaga catacnacnn ngctctcagta cggaaaggaa tgggtctacat 180
 gttggaaccc cgactgattt gaattggctc tttatctttc caaagggaat tcatcttcta 240
 ggggcacaca taaaggataa atac 264

<210> 627
 <211> 146
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(146)
 <223> unsure at all n locations

 <400> 627

 tgggtggcacc tttncaccag gtagatgttc taaatacggt gccaatgtga gtgctggcga 60
 ttcanccact gtaccctata tcgttggaac ctacttatta cttgtctatg aatctgntgc 120
 cacattatac aagacaaaat atcagg 146

<210> 628
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 628

 cccaaagtgc ttctctctc tgtctttttc tctctcttgc tctcttttg gctagttgca 60
 ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tcttccact tttctctttg gaattgggtc ttctgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 tgaaaagatt tgggatca 258

09975054-101501

<210> 629
 <211> 260
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

 <400> 629

 aaacccaaag tgnttctctc ctctgtnttt ttctctctct tgctatcctt ttggctagtn 60
 gcactgctgc aantgcaact ccaagaagcg cagtgccaaag ccaccatggt tcaacattca 120
 acagaagcct ttttcttcc acttttctct ntggtagtgg ttcttctgct taccaggcag 180
 aaggagcagc aagtgtagat gggagangac caagcatatg ggacacctac actagacagc 240
 atactgaaaa gattgggatc 260

<210> 630
 <211> 261
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

 <400> 630

 ganaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggact tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcgt atgggacacc tacactagac 240
 agcatactgn naagatttgg g 261

<210> 631
 <211> 271
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 631
 ganaacccaa agtgcctctc tcctctgtct tttctctctc cttgctatcc ttttggttag 60
 tngcactgct gcaagtgcaa ctccaagaag cgcagtgcc a gccaccatg tttcaacatt 120
 caacagaagc ctttttcctt ccacttttct ctttgggaatt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgggacacct aactagaca 240
 gcatactgaa aagattggga tcatagcacc g 271

<210> 632
 <211> 259
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 632
 aatgaaaacc caaagtgcct ctctcctctg tctttttctc tctcttgcta tccttttggc 60
 tagtngcact gctgcaagtg caactccaag aagcgcagt ccaagcacca tgtttcaaca 120
 ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcatactg aaaagattg 259

<210> 633
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 633
 gtgccttctct cctctgtctt tttctctctc ttgctatcct tttggctagt ggcactgctg 60
 caagtgcaac tccaagaagc gcagtgccaa gccaccatgt ttcaacattc aacagaagcc 120
 tttttccttc cacttttctc tttggaattg gttcttctgc ttaccaggca gaaggagcag 180
 caagtgtaga tgggagagga ccaagcatat ggacacctac actagacagc atactgaaaa 240
 gatttgggat cat 253

<210> 634
 <211> 261

<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 634

gcttctctcc tctgtctttt tctctctctt gctatccttt tggetagtgg cactgetgca 60
 agtgcaactc caagaagcgc agtgccaagc caccatgttt caacattcaa cagaagcctt 120
 tttccttcca cttttctctt tgganttggg tcttctgctt accaggcaga nggagcagca 180
 agtgtagatg ggagaggact aagcatatgg gacacctaca ctagacagca tactgaaaag 240
 atttgggatc atagaccggg t 261

<210> 635
 <211> 272
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 635

aatgaaaacc caaagtgtt ctctcctctg tcttttctc tctcttgcta tccttttggc 60
 tagtngcact gctgcaagtg caacttccaa gaagcgcagt gccaagccac catgnntcaa 120
 cattcaacag aagccttttt ccttccagtt ntctntttgg aattggttct tcngcttacc 180
 aggcagaagg agcngcaagt gtananggga gaggaccaag canatgggag anatacacna 240
 gngaggatan tgaaaagntt tggggtcata gc 272

<210> 636
 <211> 248
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations

<400> 636

aaaaatgaaa ncccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60

ggctagtggc actgctgcaa gtgcaactcc aagaagcgca tgccaagcc accatgtttc 120
aacattcaac agaagccttt ttccttcac tttctcttt ggacttggtt cttctgctta 180
ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240
tagacagc 248

<210> 637
<211> 246
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations
<400> 637

aaaatgaaaa cccaaagtgc ttctctctc tgtctttttc tctctcttgc tatecttttg 60
gctagtngca ctgntgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca 120
acattcaaca gaagcctttt tccttcact tttctctttg ganttggttc ttctgcttac 180
caggcagaag gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact 240
agacag 246

<210> 638
<211> 243
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(243)
<223> unsure at all n locations
<400> 638

cccaaagtgc ttctctctc tgtctttttc tctctcttgc tatecttttg gctagtngca 60
ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttcact tttctctttg gaatttggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
ctg 243

<210> 639

0976054-101501

<211> 246
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(246)
 <223> unsure at all n locations

 <400> 639

 tgaaaaccca aagtgttctc ctctctgtc ttttctctc tcttctatc cttttggcta 60
 gtngcactgc tgcaagtgca actccaagaa ggcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttgggct tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcata 246

<210> 640
 <211> 247
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

 <400> 640

 gaaaacccaa agtgcttctc tctctgtct ttttctctc cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa ggcagtgcc aagccaccat gtttcaanca 120
 ttcaacagag ccctttttcc ttccactttt ctctttggan ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcata 247

<210> 641
 <211> 270
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

 <400> 641

gatcgaagca naanatgaaa acccaaagtg gcttctctcc tctgccnttt tctctctctt 60
ggctaatacct tttgggctag tngcactggc tgcaagtgca actccaagaa gcgcagtgcc 120
aagccaccat gtttcagcat tcaacagaag cctttttcct tccacttttc tctttggaat 180
tggttcttct gcttaccagg cagaaggagc agcaagtgtg gatgggagag gnccaagcat 240
atgggacacc tacactagac agcatactga 270

<210> 642
<211> 255
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(255)
<223> unsure at all n locations

<400> 642
taaatgnaaa cccaaagtgc ttctctctc tgtctttttc tctctctngc tctccttttg 60
gctantngca ctgctgcaag tgcaactcca ngaagcgcag tgccaagcca ccatgtttca 120
acattcaaca gaagcctttt tccttnact tttctctttg gaattgggtc ttctgcttac 180
caggcagaag gagcagcaag tgtagatggg agaggaccna ncatatggga cacctacact 240
agacagcata ctgnc 255

<210> 643
<211> 252
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(252)
<223> unsure at all n locations

<400> 643
gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatcctttt ggctagtggc actgctgcan ccgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttcac tttctctttt ggaattgggt 180
cttctgctta ccaggcagaa ggagcancaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac ta 252

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<210> 644
 <211> 239
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(239)
 <223> unsure at all n locations

 <400> 644

 tgaaaaccca aagtgtctct ctcctctgtc tttttctctc tcttgctatc cttttggcta 60
 gtggcactgc tgcaagtgna antccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggant tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactaga 239

<210> 645
 <211> 254
 <212> DNA
 <213> Glycine max

 <400> 645

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt cactctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgtcga ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac taga 254

<210> 646
 <211> 119
 <212> DNA
 <213> Glycine max

 <400> 646

 ccgggagagt atgaaatctt cagtaggttc taggctccca aaattcaca aagctgaatc 60
 tgaaggtcta aaaaattcca tagattttct tgggtgtgaat tactacacca cttattatg 119

<210> 647
 <211> 249
 <212> DNA
 <213> Glycine max

 <220>

<221> unsure
 <222> (1)...(249)
 <223> unsure at all n locations

 <400> 647

 cttgctgcct tgtncctctgc agcaagtaga nctctggact tcttctntgg ttggtnttct 60
 gatccgggttt tctatgggtga ctatccggcg agtatgnant cttcagtagc ntctaggntc 120
 ccanaattca cnaaagctga ntctgaaggt ctanaaantt ccatagnntt tcttggtgtg 180
 nnttantnca ncacttnttn tgcggaacat gctgaacctg tcagtgccaa ccgaacntct 240
 acacagaca 249

<210> 648
 <211> 250
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(250)
 <223> unsure at all n locations

 <400> 648

 ggaagcaaaa natgaaaacc caaagtgtt ctctectcan tctttttctc tctcttgcta 60
 tccttttggc tagtggcact gctgcaagtg caactccaag aagcgcagtg ccaagccacc 120
 atgtttcaac attcaacaga agcctttttc cttccacttt tctctttgga attggttctt 180
 ctgcttacca ggcagaagga gcagcaagtg tagatgggag aggaccaagc atatgggaca 240
 cctacactag 250

<210> 649
 <211> 237
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(237)
 <223> unsure at all n locations

 <400> 649

caaaaaatga aaaccctaaag tgcttctctc ctctgtcttt ttctctctnt tgetatectt 60
 ttggctagtg gcactgctgc aagtgcact ccaagaagcg cagtgccaaag ccaccatgtt 120
 tcaacattca acagaagcct ttttcttcc acttttctct ttggaattgg ttcttctgct 180

taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg ggacacc 237

<210> 650
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations
 <400> 650

gatcgaagca aaaaatgaaa acccaaagtg cttctgctcc tctgtctttt tctctctctt 60
 gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
 caccatgntt caacattcaa cagaagcctt tttccttcca cttttctctt tgggaattggt 180
 tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
 gacacctaca tt 252

<210> 651
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 651

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac t 251

<210> 652
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 652

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctaccctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180

cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac t 251

<210> 653
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(257)
<223> unsure at all n locations

<400> 653

gggacatcga agcaaaaaat gaaaacccaa antgctttct ctctctgtc tttttctctc 60
tcttgetatc cttttggcta ntngcactgc tgcaagtgc actccaagaa gcgcagtgcc 120
aagccaccat ntttcaacat tcaacagaag cctctttcct tccacttttc tctttggaat 180
tggttcttct gcttaccagg cagaaggagc agcaagtgna gatgggagag gaccaagcnt 240
atgggacacc tacacta 257

<210> 654
<211> 270
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 654

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatcctttt ggctannggc actgctgcaa gtgcanctcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttcac tttctctttt gganttggtt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac ttagacagca tactgaaagg 270

<210> 655
<211> 253
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 655

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct actgtctttt tctctctctt 60
 gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
 caccatgttt caacattcaa cagaagcctt tttccttcca cttttctctt tgganttggc 180
 tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
 gacacctaca cta 253

<210> 656
 <211> 270
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

<400> 656

gggacatcga agcaaaaaat gaaaacccaa agtgctttct nctcctctgt ctttttctct 60
 cctcttgcta tccttttggt ctagtgngca ctgctgcaag tgcaactccc aagaagcgca 120
 gtgccaagcc accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt 180
 ggaattgggt cttctgctta ccaggcagaa ggagcagnaa gtgtagatgg gagaggncca 240
 agcatatggg acacctacnc taganagcnt 270

<210> 657
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 657

gaaaacccaa agtgcttctc tcacctgtcc tttttctcta nccttgctat ctttttggct 60
 agtngcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120

ttcaacagaa gcctttttcc ttccactttt ctctttggan ttggttcttc tgctttccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctncactaga 240
cagcata 247

<210> 658
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(254)
<223> unsure at all n locations

<400> 658

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctncctctctt 60
ngctatcctt ttggctagtn gcaactgctgc aagtgcact ccaagaagcg cagtgccaaag 120
ccaccatggt tcaacattca acagaagcct ttttccttcc acttttctct ttggaattgg 180
ttcttctgct taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg 240
ggacacctac atag 254

<210> 659
<211> 169
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(169)
<223> unsure at all n locations

<400> 659

cagtgccaaag ccacatgttt caacattcaa cagaagcctt tttccttcca cttttctctt 60
tggaattggt tcttctgctt accaggcaga aggagcagca agtgtagatn nngagaggac 120
caagcatatg ggacacctac actagacagc atactgaaaa gattgggat 169

<210> 660
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(267)

<223> unsure at all n locations

<400> 660

gaaaacccaa agtgcttctc tcctctgtct tttctctctc cttgctatcc ttttggttag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggant tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgtg gatgggagag gaccaagcat atggncacct ncantagaca 240
 gcatactgaa aagatttggg gatcatc 267

<210> 661

<211> 169

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(169)

<223> unsure at all n locations

<400> 661

cctgaatctg ctgccacatt atacaagaca aaatatcagg ctogtcnaaa aggacaaatt 60
 gggatcacta atccaacaca ctactttttg ccaaaatctc aaagcgctgc agattacaag 120
 gcagcaagta gagctctggn cttcttcttt ggtggtattc tganccggt 169

<210> 662

<211> 247

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(247)

<223> unsure at all n locations

<400> 662

gatcgaagca aaaaatgaaa acccaaagtg cttctactcc tctgtctntt tctctctctt 60
 gctatccttt tgggctagtn ggcactgctg caagtggcaa ctccaagaa gcgcagtgcc 120
 aagccaccat gnttcaacat tcaacagaag cctttttcct tcnacttttc tctttggaat 180
 tggttcttct gcttaccagg cagaaggagc agcaagtgtg gatgggagag gaccaagcat 240
 atgggac 247

<210> 663
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 663

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acaccta 247

<210> 664
 <211> 248
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations

<400> 664

gggacatcga agcaaaaaat gaaaacccaa agtgcttctc tcctctgtct ttttctctct 60
 cttgctatcc ttttggttag tggcactgct gcaagtgcaa ctccaagaag cgcagtgcc 120
 agccaccatg tttcaacatt cancagaagc ctttttcctt ccacttttct ctttgggaatt 180
 ggttcttctg cttaccaggc agaaggagca gcaagtgtag atgggagagg accaagcata 240
 tgggacac 248

<210> 665
 <211> 248
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations

<400> 665

0996054-101504

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatccnttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
ancatgttcc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
gcacctac 248

<210> 666
<211> 242
<212> DNA
<213> Glycine max

<400> 666

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatccnttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
ac 242

<210> 667
<211> 247
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(247)
<223> unsure at all n locations

<400> 667

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatccnttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg nngaggaccn nnnatatggg 240
acaccta 247

<210> 668
<211> 274
<212> DNA
<213> Glycine max

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<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

 <400> 668

 caaaaaatga aaacccaaag tgcttctctc ctgntgtctt tttctctctc ttgtatcct 60
 tttggctagt ngcactgctg caagtncaac tccaagaagc gcagtgccaa gncagcatgt 120
 ttcaacattc aacagaagcc tttttccttc cacttttctc tttgganatg gttcttctgc 180
 ttaccaggca gaaggagcag caagtgtaga tgggagnagn ccaagcatat gggacaccta 240
 catagacagc atactgaaaa gattgggatn atac 274

<210> 669
 <211> 244
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(244)
 <223> unsure at all n locations

 <400> 669

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac tttctctttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acac 244

<210> 670
 <211> 243
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(243)
 <223> unsure at all n locations

 <400> 670

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120

accatgtttc aacattcaac agaagccttt ttccttcac ttttctcttt ggaattggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acc 243

<210> 671
 <211> 251
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations
 <400> 671

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttcac ttttctcttt gganttggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca gcatatggga 240
 cacctacact a 251

<210> 672
 <211> 275
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations
 <400> 672

gggaatcctn cgtaaggtaa acggcnaagg tngtaaggaa tcattgccat ctttctactt 60
 tactttgtgg anagctncca gggacaccta cactagacag catactgaaa agatttgga 120
 tcatagcacc ggtgacatgg gagctgattt ttatcatcga tacaaggggtg acatacanca 180
 agcganagan attgggctgg actctttcag attctctatc tcatgggtcaa gaatattccc 240
 aanggcnaagg gagcagttaa ccccttggtg gttaa 275

<210> 673
 <211> 241
 <212> DNA

<213> Glycine max
 <400> 673
 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagagggcca agcatatggg 240
 a 241

<210> 674
 <211> 223
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations
 <400> 674

gaaaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tggcactgct gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt 120
 caacagaagc ctttttccct ccacttttct ctttggannt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgg 223

<210> 675
 <211> 286
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations
 <400> 675

gtaacagcaa tggagctgtc ttccagtgca tttgtggtaa tattgttggc agtcgcagct 60
 acagcagtac tctgcaaatt ggttggatct atctttcntg cccagcgatt tcctcnttgg 120
 cattgcttct tcctcttacc agtatgaagg agcttacaag agtgacggca aaggactgag 180
 caactgggat aactacactc acggaccagg tagaagtgtg ataattggatg gaagcaatgg 240
 ggatatcgcg attgatcatt atcatcgcta cctggaggat atagat 286

<210> 676
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 676

gttggcagtc gcagctacag cagtactctc aaatggggtg gatctatctt tcttgcccag 60
 cgatttcctc tttggcattg cttcttcctc ttaccagtat gaaggagctt acaagagtga 120
 cggcaaagga ctgagcaact gggataacta cactcacgga ccaggtagaa gtgtaataat 180
 ggatggaagc aatgggggata tcgcgattga tcattatcat cgctacctgg aggatataga 240
 tttaatggaa actttggggag t 261

<210> 677
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

<400> 677

cagatagaag gagcagcagc tatagatggc agaggaccaa gtatatggga cacctatact 60
 aaacagcaac caggggaagat ttgggatcat agtgatggaa gtctagcaat tgatttttat 120
 caccggtaca agacgacata aagatggtga nagaagtngg gttggattca tacagatttt 180
 ccatctcatg gtccagaata ttccccaagg gcaaggggagc agttaacacc ttgggggtca 240
 agttctacaa cgatctcatt 260

<210> 678
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 678

agatagaagg agcagcagct atagatggca gaggaccaag tatatccgga cacctatact 60

aaacagcaac canggaagat ttgggatcan agtgatggaa gtctagcaat tgatttttat 120
 caccggtaca agagcacata aagatggtga aagaagttgg gttggattca tacagatttt 180
 ccatctcatg gtccagnata tttcccnng gggcnaggga gcagtaacac cntngggggc 240
 ccantctncc aagancncct ttt 263

<210> 679
 <211> 301
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 679

anatgaacca tatggctaca gcgatgaatgg ctacagtggg ggaaattttg caccaggtag 60
 atgttctaac tangttggaa aatgccctgc nggtgattct tccaccgagc cctacattgt 120
 taaccaccac ttaatacttg ctcatggagc agcagtcaat tgctacaaga acaaatacca 180
 ggctcatcag anaggacaaa ttgnggtcac catagtgact ttcttctttg aacaaaaatc 240
 taatagtgat gctgatcgca aggcagcaag gcgagctctg gacttatgtt tggttggttt 300
 g 301

<210> 680
 <211> 271
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 680

angtttgaga attganttcg ttcagatttg aaaatgtggg ttaaggttgt tccttcttct 60
 ccttgcagca ctttctcttt ttcacttagc cgcagcttac tottaatcgt agcagttttt 120
 cagcagattt cttctttgga acagcttctt cagcttacca gtatgaaggc gcagcacgtg 180
 aaggtggcaa gggacctagt atatgggaca ccttactgc atagccaccc agatagaata 240
 gcagaccaca gtaatgggga gttgccatga t 271

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<210> 681
 <211> 452
 <212> DNA
 <213> Glycine max

 <400> 681

 aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag caccaaccaa 60
 caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct ggtgcagacg 120
 cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga gacacctttc 180
 ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt atggcccaca 240
 aagacggtcg cggcccaagc atttgggacg tcttcatcaa aaaacccggg attgtcgcaa 300
 ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga agatatagat 360
 ctcatggcca gcctgaattt tgatgcctac cggttctcaa tctcgtggtc cagaattttt 420
 ccaaatggaa ctggccaagt aaattggaaa ag 452

<210> 682
 <211> 357
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)... (357)
 <223> unsure at all n locations

<400> 682

 cttcatcaaa aaacccggga ttgtcgcaaa taatggcacg ggagaagttt ctggtgatca 60
 gtaccatcgc taaaaagaag atatagatct catggccagc ctgaattttg atgcctaccg 120
 gttctcaatc tcgtggtcca gaatttttcc aaatggaact ggccaagtaa attggaangg 180
 tgtagcatac tacaataggt tgatcaatta cttgctagag aaaggtatta ctccatatgc 240
 aaatctctac cattatgac ttccttttagc acttgaggag aggtacaacg gattattgag 300
 tcgccaagtt gtgaaagatt ttgcagatta tgcagaattt tgtttcaaga cttttgg 357

<210> 683
 <211> 444
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)... (444)

<223> unsure at all n locations

<400> 683

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aaacanagta agagttcact caatctcact gtgtgtgtgag ttgtgtgtga gcaccaacca 60
acaatggtgt ctctgactcc gttatgtttc tttattacct tgttgatcgc tggatgcagac 120
gcagcggcgg agcccaaac ggtgcgtttt gacaccgngg ggttgagcag agacaccttt 180
cccaaaggat tcttattcgg aacggccacg tctgcgtacc aagtggaggg tatggcccac 240
aaagacggtc gcggccaag catttgggac gtcttcatca aaaaaccggt gattgtcgca 300
aataatggca cgggagaagt ttctgttgat cagtnccatc nctacaaagg aagatataga 360
tctcatggnc agcctgaatt ttgatgccta ccggtttttna atctcgtggt ccagaaattt 420
ttcnaatggn acttggccaa gtaa 444

```

<210> 684

<211> 430

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(430)

<223> unsure at all n locations

<400> 684

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caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt ttgttgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacn cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcggga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacggtcg cggnccaagc atttgggacg tcttcatcaa aaaaccggtg 300
attgtcgcaa ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga 360
agatattagg gatctcatgg ccagcctgaa ttttgatgcc taccggttct caatctcgtg 420
gtccagaatt 430

```

<210> 685

<211> 382

<212> DNA

<213> Glycine max

<400> 685

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtagt tgtgtgtgag 60
 caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacett gttgatcgct 120
 ggtgcagacg cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
 gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
 atggcccaca aagacggtcg cggcccgaagc atttgggacg tcttcatcaa aaaaccggg 300
 attgtcgcaa ataatggcac gggagaagtt tctgttgatc agtaccatcg ctacaaagaa 360
 gatatagatc tcatggccag cc 382

<210> 686
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 686

gtaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
 attactccat atgcaaatct ctaccattat gatcttcctt tagcacttga ggagaggtag 120
 aacggattat tgagtcgcca agttgtgaaa gattttgcag attatgcaga attttgttta 180
 tacgactttt ggagatagag ttaagaattg gatgacgttt aacgaacctc gtgtggtggc 240
 tgctcttggc tatgataatg gtttctttgc cccggaa 277

<210> 687
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 687

gcgacgtctg cgtaccaagt ggagggtatg gccacaaaag acggtcgcg cccaagcatt 60
 tgggacctct tcatcaaaaa acccgggatt gttgcaaata atggcacggg agaagtttct 120
 gttgatcagt accatcgcta caaagaagat atagatctca tggccagctt gaattttgat 180
 gcctaccggt tctcaatctc gtggtccaga atttttccaa atggaactgg ccaagtaaat 240
 tggaaagggt tagcatacta ca 262

<210> 688
 <211> 272
 <212> DNA
 <213> Glycine max

<220>

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<221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 688

ctaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
 attactccat atgcaaattct ctaccattat gatcttcctt tagcacttga ggagaggtac 120
 aacggattat tgagtcgcca agttgtgaaa gattttgcag attatggcag aattttgttt 180
 caagactttt ggagatagag ttaagaatgg gatgangttn aacgaacctc gtgtggtggc 240
 tgctcttggc tatgataang gttctttgcc cc 272

<210> 689
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 689

tggaataaaa ctatgtgagc taaagtatgt ttaatttgac aggaagatat agatctcatg 60
 gccagcttga attttgatgc ctaccggttc tcaatctcgt ggtccagaat ttttccaaat 120
 ggaactggcc aagtaaattg gaaaggtgta gcatactaca ataggctgat caattacttg 180
 ctagaaaaag gtattactcc atatgcaaat ctctaccatt atgatcttcc tttagcactt 240
 gaggagaggt acaacggatt attgagccgg c 271

<210> 690
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 690

aagacgacag aagggggaca ttatcttttc tcttcacaaa aacaaaaaca aagtaagagt 60
 tcactcaatc tcactgtgtt gtgagttgtg tgtgagcacc aaccaacaat ggtgtctctg 120
 actccgttat gtttctttat taccttggtg atcgctggtg cagacgcagc ggcggagccc 180
 caaacggtgc gttttgacac cgggggggtg agcaagagac acctttccca aaggattctt 240
 attcggaacg gccacgtctg cgtaccaagt ggaggggatg gccacaaaag acggtcgcg 300
 cccaagcatt tgggacgtct tcatcaaaaa acccgggatt gtcgcaaata atggcacggg 360
 agaagttt 368

0976054-101501

<210> 691
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 691

gccaaagtaaa ttggaaagggt gtagcatact acaataggct gatcaattac ttgctagaaa 60
 aagggtattac tccatatgca aatctctacc attatgatct tccttttagca cttgaggaga 120
 ggtacaacgg attattgagc cggcaagttg tgaatgattt tgcagattat gcagaatttt 180
 gtttcaagac ttttggagat agagttaaga attggatgac gtttaatgaa cctcgtgtgg 240
 tggctg 246

<210> 692
 <211> 277
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 692

agtaagagtt cactcaatct cactgtgttg tgagttgtgt gtgagcacca accaacaatg 60
 gtgtctctga ctccggtatg tttctttatt accttgttga tcgctgggtgc anacgcagcg 120
 gcggagcccc aaacggtgcg ttttgacacc gggggggttga ncagagacac ctttcccaaa 180
 ggattcttat tcggaacggc cacgtctgcg taccaagtgg agggatatggc ccacaaagac 240
 ggtcgcggcc caagcatttg ggacgtcttc atcaaaa 277

<210> 693
 <211> 294
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 693

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgnag 60
 caccaaccaa caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120

ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggaggggt 240
atggcccaca aagacggctg cgggccaagc atttgggacg tcttcatcaa aaaa 294

<210> 694
<211> 291
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(291)
<223> unsure at all n locations
<400> 694

caaanacaaa gtaaganttc antcaatctc actgtgttgt gagttgtgtg tgagcnccaa 60
ccaacaattg gtgtctctga ntccgttatg tttctttatt accttgttga tcgtgggtgc 120
agacgcagcn gcggatcccc aaacgggtgcg ttttgacacc gggggggttga gcagagacac 180
ctttcccaaa ggnttcttat tcggaacggc cacgtctgcg taccaagtgg agggatatggc 240
ccacaaaagac ggtcgcggcc caagcatttg ggacgtcttc atcaaaaaac c 291

<210> 695
<211> 280
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(280)
<223> unsure at all n locations
<400> 695

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttgttgat cgctgggtgca 120
gacgngngcg gagccccaaa cgggtgcgtt tgacaccggg ggggttgagca gagacacctt 180
tcccaaagga ttcttattcg gaacggccac gtctgcgtac caagtggagg gtatggccca 240
caaagacggt cgcgggccaa gcatttggga cgncttcac 280

<210> 696
<211> 263
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 696

ctcaatctca ctgtgttgtg agtngtgtgt gaggaccaac caacaatngt gtctctgact 60
 ccgttatgtt tctttattac cttgttgacc gctgggtgcag acgcagcggc gganccccaa 120
 acggtgcggt ttgacaccgg ggggttgagc agagacacct ttcccaaagg attcttattc 180
 ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240
 agcatttggg acgtcttcat caa 263

<210> 697
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 697

aaaacaaaaa caaagtaaga gttcactcaa tctcactgtg ttgtgagttg tgtgtgagca 60
 ccaaccaaca atgggtgtctc tgactccgtt atgtttcttt attaccttgt tgatcgctgg 120
 tgcagacgca cggcgaggag cccaaacgtg cgttttgaca cgggggggtt gagcagagac 180
 acctttccca aaggattctt attcggaacg gccacgtctg cgtaccaagt ggagggtatg 240
 gccacaaaag acggtcgcgg cccaagcatt tgggacgtct tcac 285

<210> 698
 <211> 287
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 698

caaaaacaaa aacaaagtaa ganttcactc aatctcactg tggtgtgagt tgtgtgtgag 60
 caccaaccaa caatngtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
 ggtgcagacg cagcggcgga ccccaaacgg tgcgttttga caccgggggg ttgagcagag 180
 acacctttcc caaaggattc ttattcgga cggccacgtc tgcgtaccaa gtggagggta 240

tgccccacaa agacggtcgc ggcccaagca tttgggacgt cttcatc 287

<210> 699
<211> 274
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

<400> 699

ctcaatctca ctgtgttgtg agttgttgtg gagcaccaac caacaatggt gtctctgact 60

ccgttatgtt tctttattac cttgttgatc gctgggtgcag acgcagcggc gganncccaa 120

acggtgcggt ttgacaccgg ggggttgagc agagacacct ttcccaaagg attcttattc 180

ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240

agcatttggg acgtcttcat caaaaaaccc ggga 274

<210> 700
<211> 262
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 700

ctcaatctca ctgngttatg agttatgtgt gagcnccaac caacaanggn gtctctgact 60

accgtnatgg ttctntatta cttgtngat cgctgggtgca gacgcagcgg cggagcccaa 120

acggngcgtn ttgacaccgg ggggntgagc agagacacct ttcccaaagg nttcttattc 180

ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcggccca 240

agcatttggg acgtctncat ca 262

<210> 701
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(254)

A series of 12 small, square, black-and-white photographs showing the progression of a plant's growth from a seedling to a mature plant. The images are arranged in a single vertical column. The first image at the top shows a small seedling with two leaves. The subsequent images show the plant growing taller, with more leaves appearing and the stems becoming more robust. The final image at the bottom shows a mature plant with a dense canopy of leaves and a thick, woody stem.

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ccacaaagac ggtcgcggcc c

261

<210> 704
<211> 251
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(251)
<223> unsure at all n locations

<400> 704

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ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttggtgat cgctgggtgca 120
gacgcagcgg cggncccaaa cgggtgcgttt tgacaccggg gggttgagca gagacacctt 180
tcccaaagga ttcttattcg gaacggccac gtctgcgtac caagtggagg gtatggccca 240
caaagacggt c 251

<210> 705
<211> 247
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(247)
<223> unsure at all n locations

<400> 705

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caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggccc 247

<210> 706
<211> 246
<212> DNA
<213> Glycine max

<400> 706


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caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgttgtgag 60
caccaaccaa caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga gccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcc 246

```

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<210> 707
<211> 256
<212> DNA
<213> Glycine max

```

```

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

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```

<400> 707

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```

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caccaaccaa caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacg 256

```

```

<210> 708
<211> 246
<212> DNA
<213> Glycine max

```

```

<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

```

```

<400> 708

```

```

caaaaacaaa gtaagagttc actacntctc actgtgttnn nagtttgtgtg tgagcaccca 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttgttgat cgctgggtgca 120
gacgcagcgg cggaagccca aacgggtgct tttgacaccg ggggggttgag cagagacacc 180
tttcccaaag gattcttatt cggaacggcc acgtctgctg accaagtgga gggatatggcc 240
cacaaa 246

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<210> 709
<211> 233
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(233)
<223> unsure at all n locations

<400> 709

gtngagcacc aaccaacatt ggtgtctctg actnecgttat gtttctttat taccttgttg 60
atcgtggtgc agacgcagcg gcggancccc nnacgggtgcg ttttgacacc ggnggggtga 120
gctgagacac ctttcccaaa ggattcttat tcgnaacggc cacgtntgcg taccatgtgg 180
agggatatngc ccacaaagat ggtcgcggcc naagcatttg gnacgtcttc acc 233

<210> 710
<211> 239
<212> DNA
<213> Glycine max

<400> 710

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttgttgat cgctgggtga 120
gacgcagcgg cgagagcccca aacgggtgcgt tttgacaccg ggggggttgag cagagacacc 180
tttcccaaag gattcttatt cggaacggcc acgtctgcgt accaagtgga gggatatggc 239

<210> 711
<211> 424
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(424)
<223> unsure at all n locations

<400> 711

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ggaagtcgaa gctagccgtg gatttggcct cccacttccc cggcgaactc atcaacgccg 120
attccatgca ggtctaccgc ggcctngatg ttctcaccaa caaactccct ntctctcacc 180
agaacggagt tccgcatcat ctcttgggta ccgtaagccc caacgtggaa ttcactgcca 240

aagcgtttcg ggattccgnt attcccatta ttgatgatat attggctcgt aatcacttgc 300
ctgttatagt tgggggcact aattactata tccaggctct tgtgagtccg tttcttttag 360
atgattctgc agaagatatg gatgaaagct ggttgggtga tccaactggg tctggaacaa 420
tttc 424

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